

1	pgfplotstest.file.tex	6
1.1	‘plot file’ test	6
1.1.1	A file in gnuplot format ‘num num i’	6
1.1.1.1	Same file loaded with ‘plot table’	6
1.1.2	A file which differs slightly from gnuplot format	7
1.1.3	A file which starts with newlines	7
1.1.3.1	Same file loaded with ‘plot table’	7
1.1.3.2	testing space gobbling in ‘plot file’ command	8
1.2	‘plot table’ test	9
1.2.1	Plot by column ‘dof’ versus column ‘Lmax’	9
1.2.2	Plot by column 2 versus column 3	9
1.2.3	Plot by preloaded tables	10
1.2.4	a table which has no column names	10
2	pgfplotstest.function.tex	11
2.1	‘plot function’ test	11
2.1.1	sin(x)	11
2.1.2	exp(x)	11
2.1.2.1	linear	11
2.1.2.2	semilogy	12
3	pgfplotstest.expr.tex	13
3.1	‘plot expression’ test	13
3.1.1	sin(x)	13
3.1.2	$x^2$	13
4	pgfplotstest.axispath.tex	14
4.1	Testing path commands inside of axis	14
4.1.1	log plot	14
4.1.2	Linear plot	14
4.2	Checking plot expression	15
5	pgfplotstest.axislines.tex	16
5.1	Axislines placement	16
5.1.1	tick align=outside	16
5.1.2	axis y line/ axis x line	16
5.1.3	axis [xy] line/ tick align/ y discontinuity	17
5.1.4	axis [xy] line/ tick align/ x discontinuity	19
5.1.5	axis y discontinuity	22

6	pgfplotstest.scaling.tex	23
6.1	Standard placement normal plot	23
6.2	Scaling tests	23
6.2.1	width=5cm	23
6.2.2	height=3cm	23
6.2.3	x=3cm	23
6.2.4	x=3cm, y=4cm	24
6.2.5	y=3cm	24
6.2.6	Scale vs. Datascale trafo	25
6.2.7	Testing numeric artefacts around tick position '0'	25
6.3	Scaling log plots	27
6.4	Scaletest	28
6.5	Scaling test for very small or very large x values	28
6.5.1	1e-2	28
6.5.2	1e+2	29
6.5.3	x=1e+11; y=1e-6	29
6.5.4	1e+1	30
6.5.5	1e+3	30
6.5.6	1e+4	31
6.5.7	1e-2, 1e+4	31
7	pgfplotstest.ticks.tex	32
7.1	Minor ticks	32
7.2	Tick placement	33
7.2.1	xtick=data	34
7.2.1.1	ytick=data	35
7.2.2	ticks on axis rectangle	35
7.2.3	modified labels	36
7.3	Tick label assignment tests	37
7.3.1	Using xticklabel and xtick	37
7.3.2	Using xticklabels	38
7.3.3	With xtick labels and commas by hand	38
7.3.4	Only with auto number formatting options; different for x and y	39
7.3.5	Using yticklabels in logplot	39
7.4	Tick/Tick-Label placement log plots	40
7.4.1	ytickten	40
7.4.2	ytick	40
7.4.3	extra y ticks	41
7.4.4	extra y ticks and formatted label	41
7.4.5	extra x and y ticks, linear plot	42

8	pgfplotstest.enlargelimits.tex	43
8.1	Limit computation	43
8.1.1	User specified limits	43
8.1.1.1	linear plot, unconstraint	43
8.1.1.2	linear plot, limited to $x \in [-20, 20]$	43
8.1.1.3	linear plot, limited to $y \in [-12000, 800]$	44
8.1.1.4	linear plot, limited to $x \in [-20, 20]; y \in [-12000, 800]$	44
8.1.1.5	linear plot, limited to empty $x$ -range	45
8.1.2	Log plots	45
8.1.2.1	log plot unconstraint	45
8.1.2.2	log plot limited to $x \in [10^3, 5 \cdot 10^5]$	46
8.1.2.3	log plot limited to $y \in [10^{-5}, 2 \cdot 10^{-3}]$	46
8.1.3	Enlargelimits tests	47
8.1.3.1	enlargelimits=false, x limits provided	47
8.1.3.2	enlargelimits=false, no limits provided	47
8.1.3.3	enlargelimits=true, all limits provided $[-1, 1] \times [-1, 1]$	48
8.1.3.4	enlargelimits=0.5	48
9	pgfplotstest.logplotenv.tex	49
9.1	Default options log plot	49
9.1.1	Default size	49
9.1.2	Small size	49
9.1.3	Very small size	50
9.1.4	Large size	50
9.1.5	Large size; large range	51
9.1.6	Extremely small y range for log plot	51
9.1.6.1	Without extra ticks, enlargelimits=false	51
9.1.6.2	With extra ticks, enlargelimits=false	52
9.2	Semilogy plot	52
9.3	Semilogx plot	53
9.3.1	Extra ticks	53
10	pgfplotstest.hansmeine_app.tex	55
10.1	Application example of Hans Meine	55
10.1.1	With plot file	55
10.1.2	With plot file and restricted bounding box	56
11	pgfplotstest.legend.tex	57
11.1	Legends	57
11.1.1	Old-format legends with two backslashes as separator	57
11.1.2	Using comma-separated-legends	57
11.1.3	testing legend columns	58

11.1.4	“legend plot pos” options	60
12	pgfplotstest.misc.tex	62
12.1	Paths after addplot	62
12.1.1	plot coordinates	62
12.1.1.1	without space after ‘coordinates’	62
12.1.1.2	with space after ‘coordinates’	62
12.1.1.3	using closedcycle path	63
12.1.2	plot table	63
12.1.3	plot function	64
12.2	Title-option	64
12.3	Filter test	65
12.4	Test for addplot+[...]	66
12.5	Hide axis test	67
12.6	disabledatascaling / disablelogfilter	68
12.6.1	disabledatascaling	68
12.6.2	disabledatascaling + explicit limits	68
12.6.3	disabledatascaling + explicit limits + error bars	69
13	pgfplotstest.align.tex	70
13.1	Anchors, alignment, baselines, sub nodes	70
13.1.1	Baseline alignment	70
13.1.2	Baseline alignment and externalized graphics	70
13.1.3	Baseline alignment and externalized graphics II	71
13.1.4	Horizontal and Vertical alignment	71
13.1.5	Anchortest	72
13.1.6	Accessing sub-nodes	79
13.1.7	Funny bounding boxes	80
13.1.7.1	(my plot.below south west) rectangle (my plot.above north east)	80
14	pgfplotstest.gridtick.tex	81
14.1	Grid lines test	81
14.2	Tick lines test	83
14.3	TikZ-coordinate system “axis”	84
15	pgfplotstest.styles.tex	86
15.1	Style-tests	86
15.1.1	Limits in ‘every axis’; ‘cycle list’ option and ‘cycle list name’ option	86
15.1.2	testing ‘every loglog axis’ style	86
15.1.3	Using several ‘every ...’ styles	87
15.1.4	Using the ‘style=’ option	87
15.1.5	legend style, grid style, x label style etc. options	88

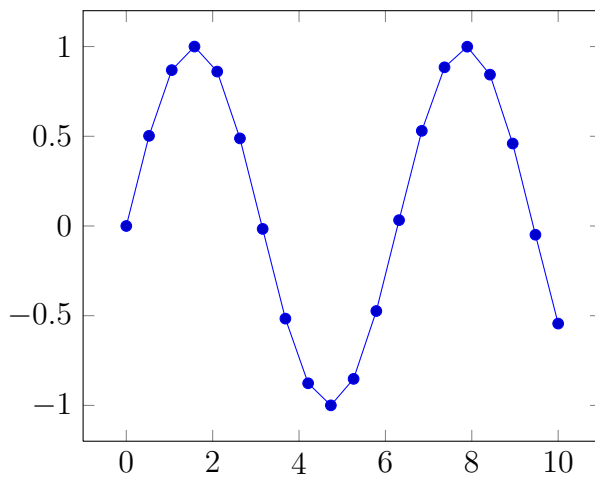
15.1.6	Providing TikZ-options to either tikzpicture or axis	88
15.1.7	Collecting many options together	89
15.1.7.1	Putting the same options into a style...	90
15.1.8	Line width	90
15.1.8.1	2pt global	90
15.1.8.2	2pt in every axis	91
16	pgfplotstest.errorbars.tex	92
16.1	Errorbars	92
1	changing styles	92
2	using 100% minus	93
3	with plot table	93
16.1.1	Log-plot	94
16.1.1.1	relative errors	94
16.1.1.2	x fixed=500, y explicit relative	94
16.1.1.3	with plot table	95
16.1.1.4	with plot table absolute	95
17	pgfplotstest.plottypes.tex	96
17.1	Stacked plots	96
17.1.1	stack y, sharp plot	96
17.1.1.1	with closedcycle	96
17.1.1.2	with closedcycle and const plots	97
17.1.2	stack y, ybar	98
17.1.3	stack y, ybar, minus	98
17.1.4	stack x, sharp plot [not useful]	99
17.1.5	stack x, xbar	99
17.1.6	stack x, xbar, minus	100
17.2	Bar diagrams	100
17.2.1	Interval bar handlers	101
17.3	const plot	102
17.4	const plot mark right	102
17.5	jump mark right	103
17.6	jump mark left	103

WARNING: This file is merely a copy-pasted version of the latex tests. It suffices to check whether the context version compiles and does roughly what is expected. The reference test is, however, only available for latex!

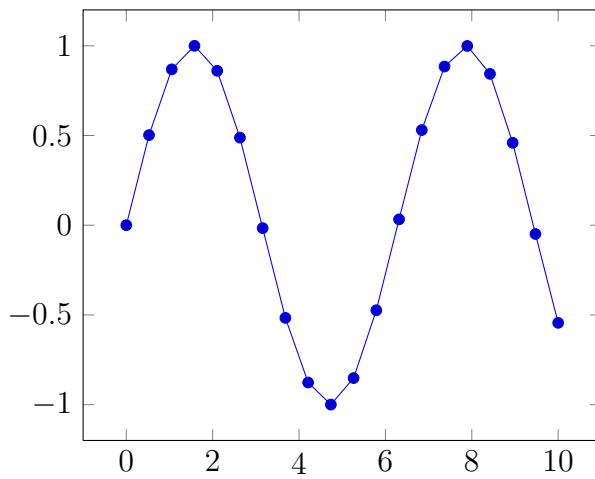
# 1 pgfplotstest.file.tex

## 1.1 ‘plot file’ test

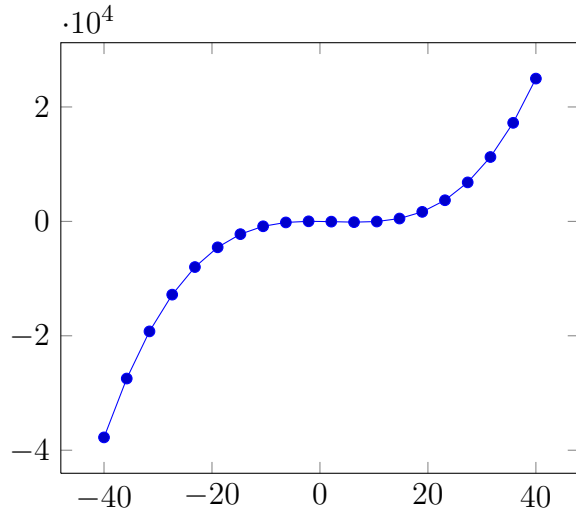
### 1.1.1 A file in gnuplot format ‘num num i’



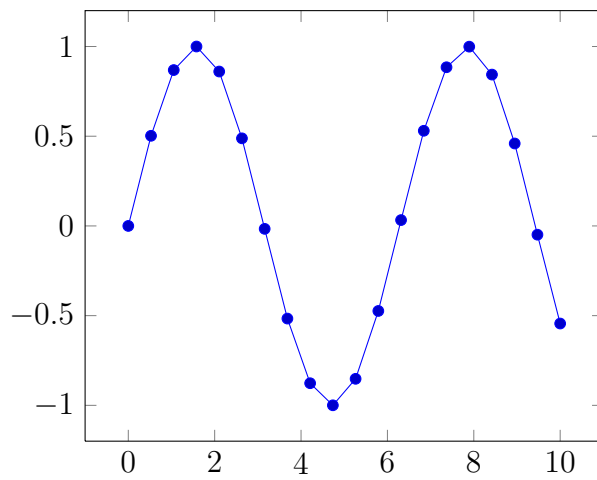
#### 1.1.1.1 Same file loaded with ‘plot table’



### 1.1.2 A file which differs slightly from gnuplot format

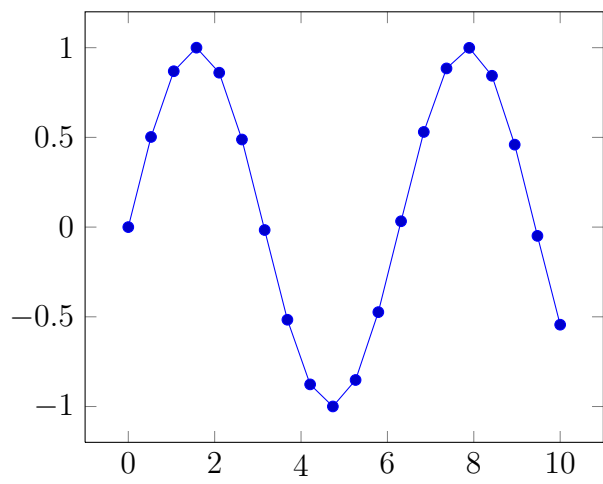


### 1.1.3 A file which starts with newlines

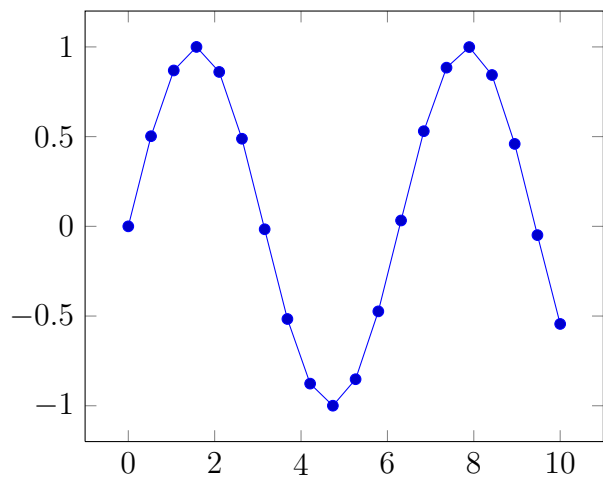


#### 1.1.3.1 Same file loaded with 'plot table'

The first data point should have been identified as column name.

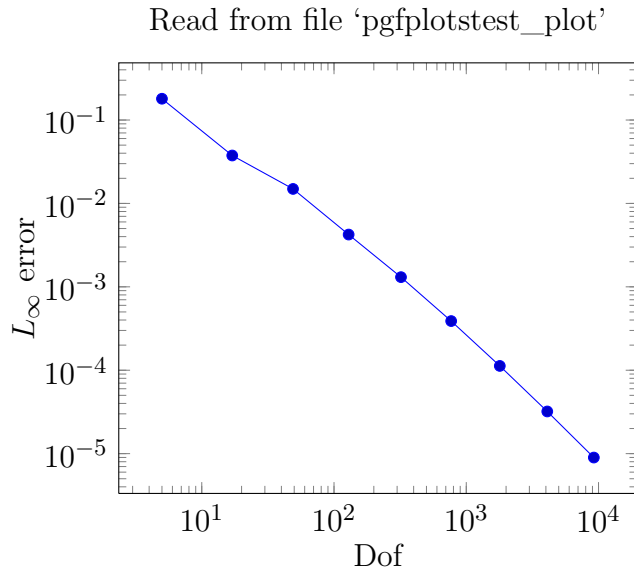


### 1.1.3.2 testing space gobbling in 'plot file' command

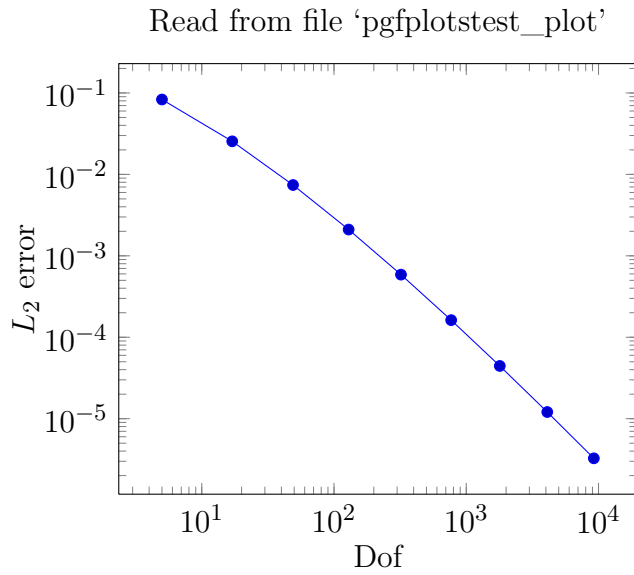


## 1.2 ‘plot table’ test

### 1.2.1 Plot by column ‘dof’ versus column ‘Lmax’

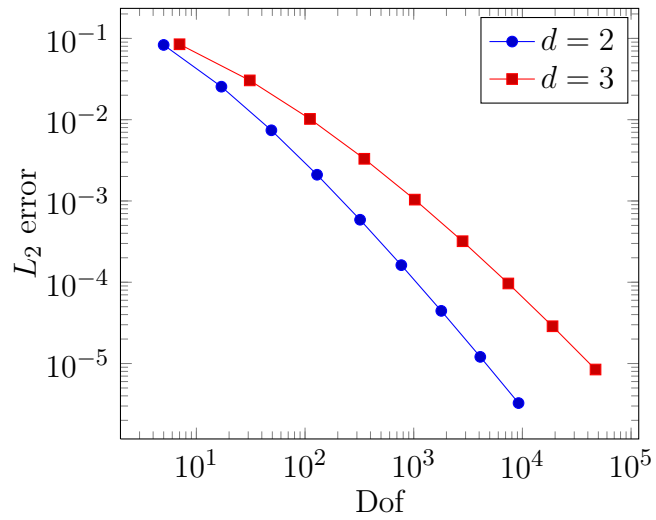


### 1.2.2 Plot by column 2 versus column 3



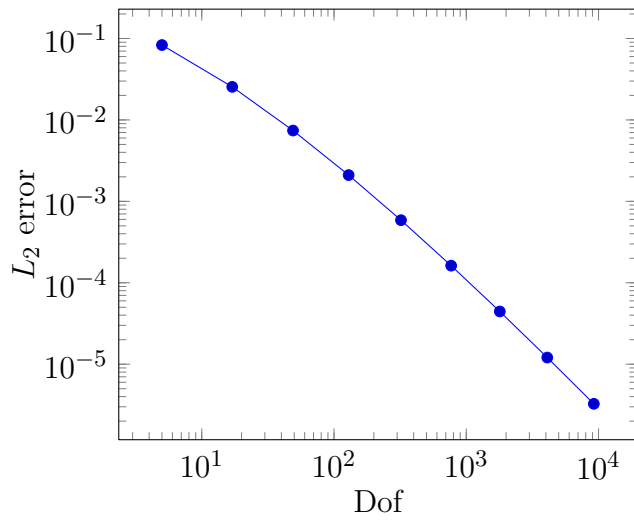
### 1.2.3 Plot by preloaded tables

Read from file ‘pgfplotstest\_plot’ and ‘pgfplotstest\_plot3’



### 1.2.4 a table which has no column names

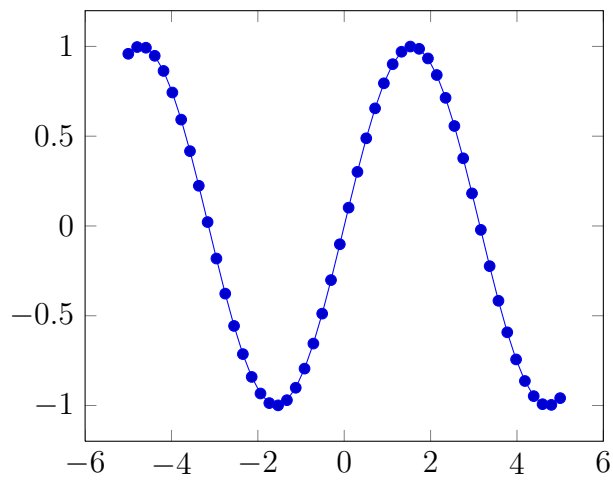
Read from file ‘pgfplotstest\_plotnocolnames’



## 2 pgfplotstest.function.tex

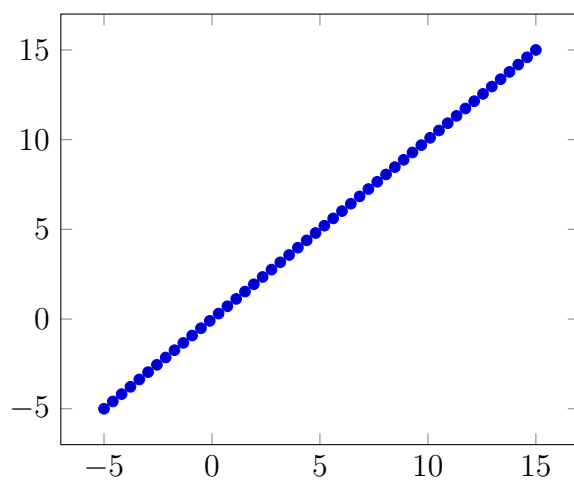
### 2.1 ‘plot function’ test

#### 2.1.1 $\sin(x)$

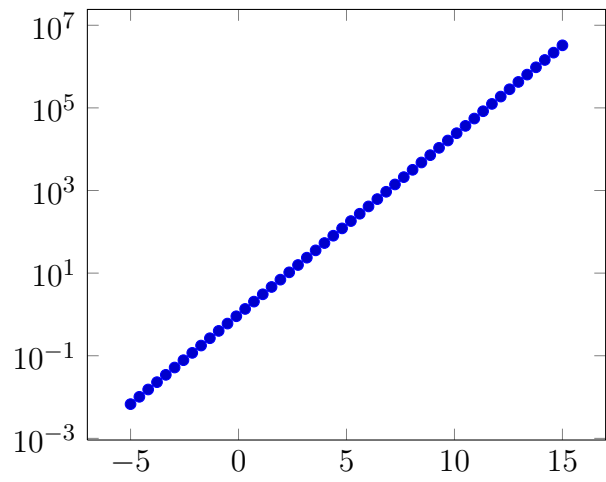


#### 2.1.2 $\exp(x)$

##### 2.1.2.1 linear



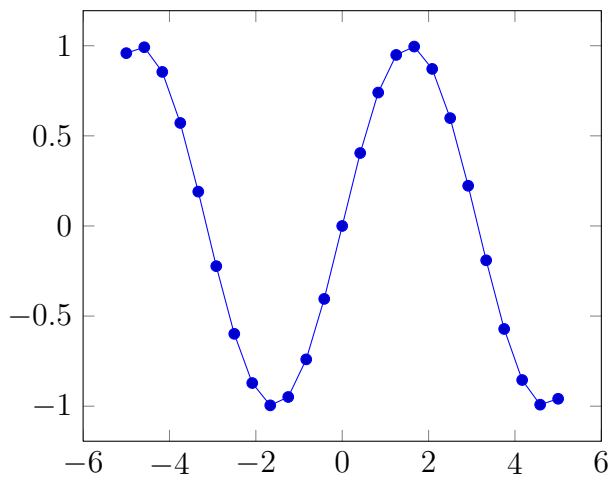
## 2.1.2.2 semilogy



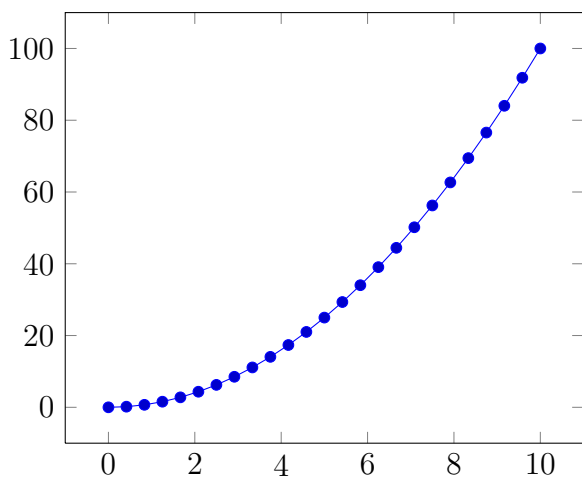
### 3 pgfplotstest.expr.tex

#### 3.1 ‘plot expression’ test

##### 3.1.1 $\sin(x)$



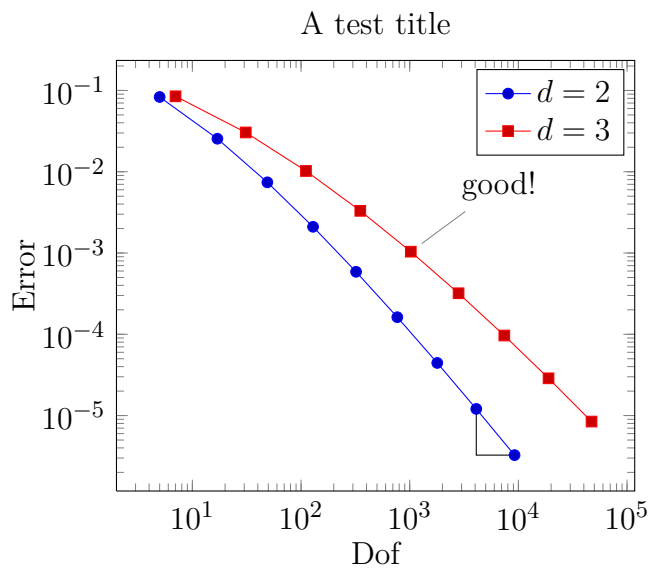
##### 3.1.2 $x^2$



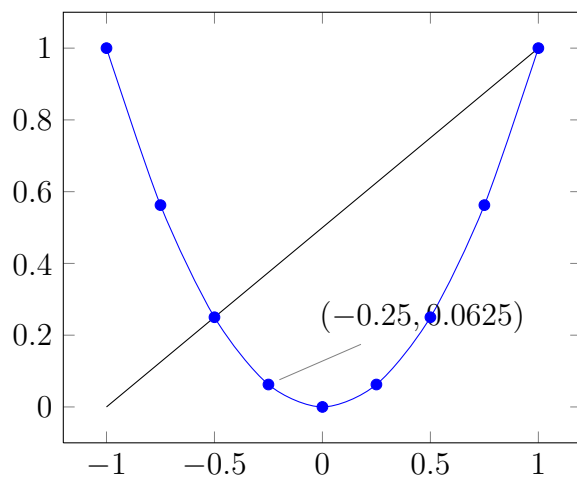
## 4 pgfplotstest.axispath.tex

### 4.1 Testing path commands inside of axis

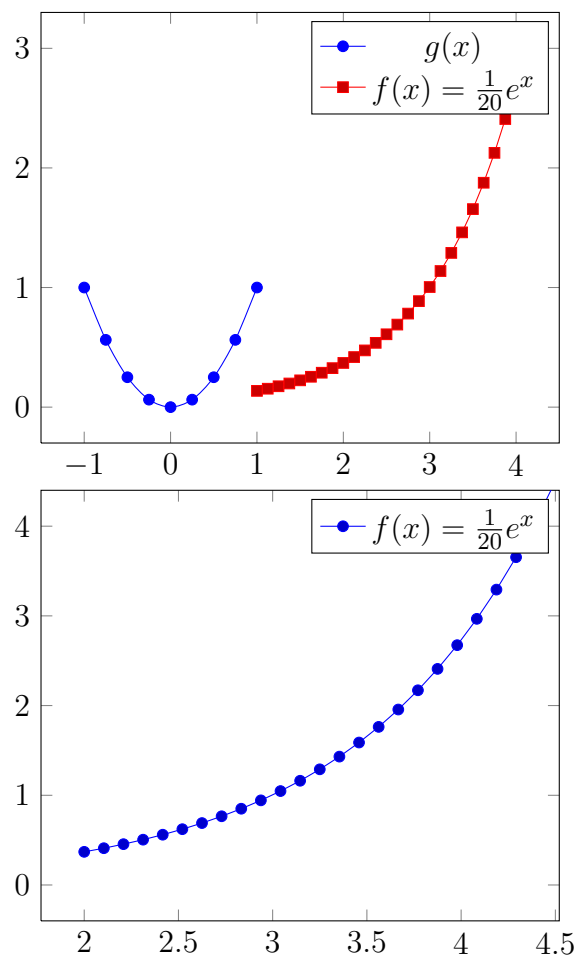
#### 4.1.1 log plot



#### 4.1.2 Linear plot



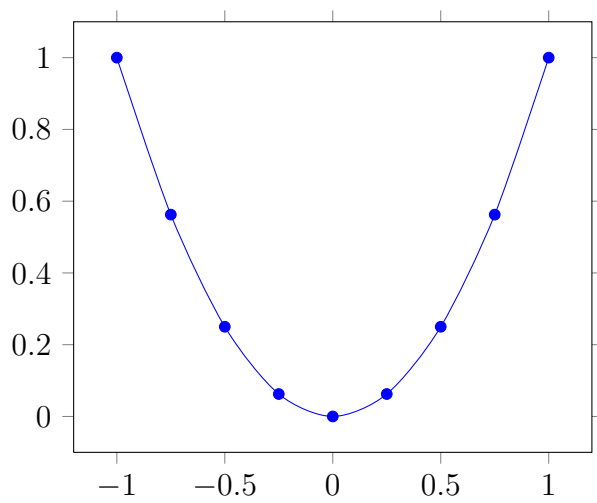
## 4.2 Checking plot expression



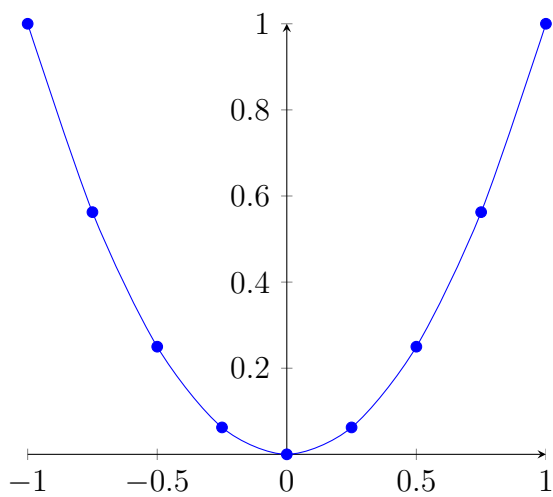
## 5 pgfplotstest.axislines.tex

### 5.1 Axislines placement

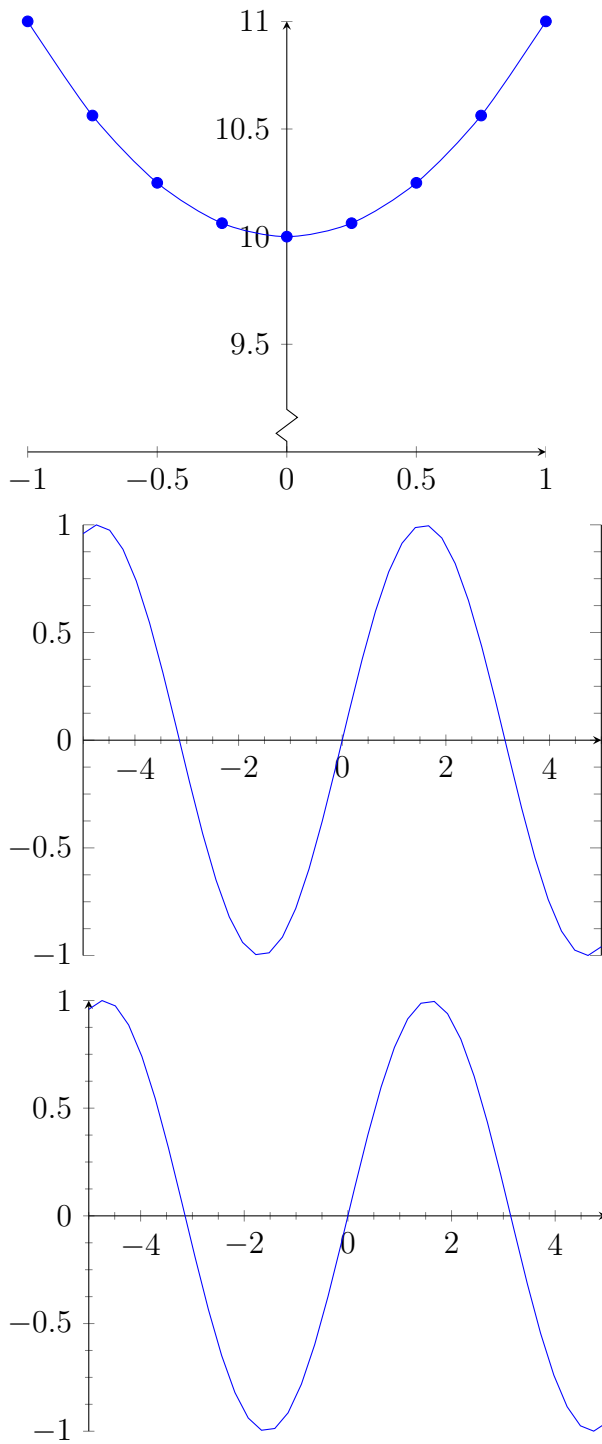
#### 5.1.1 tick align=outside

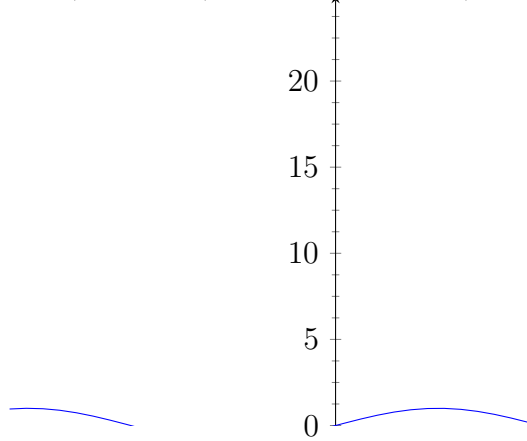
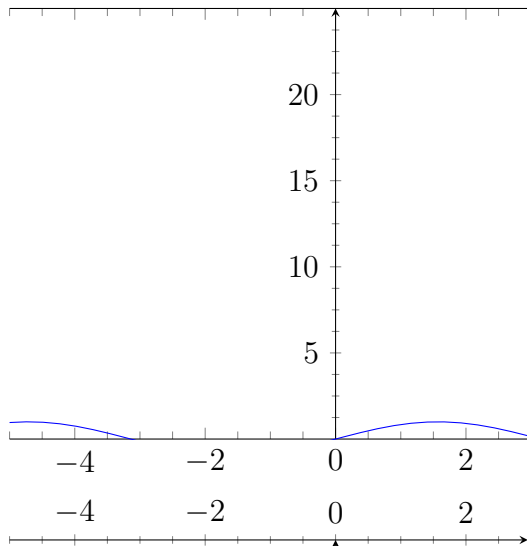
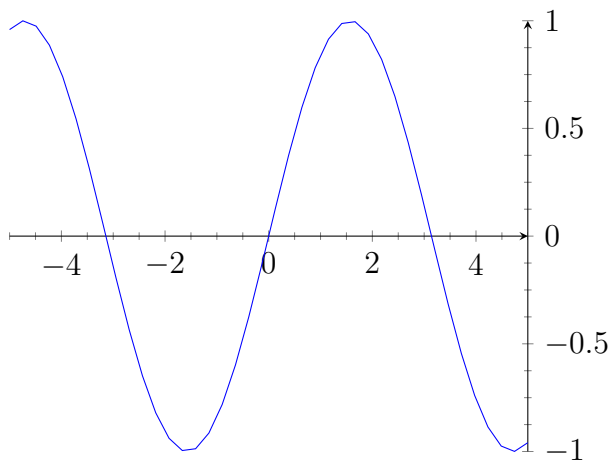


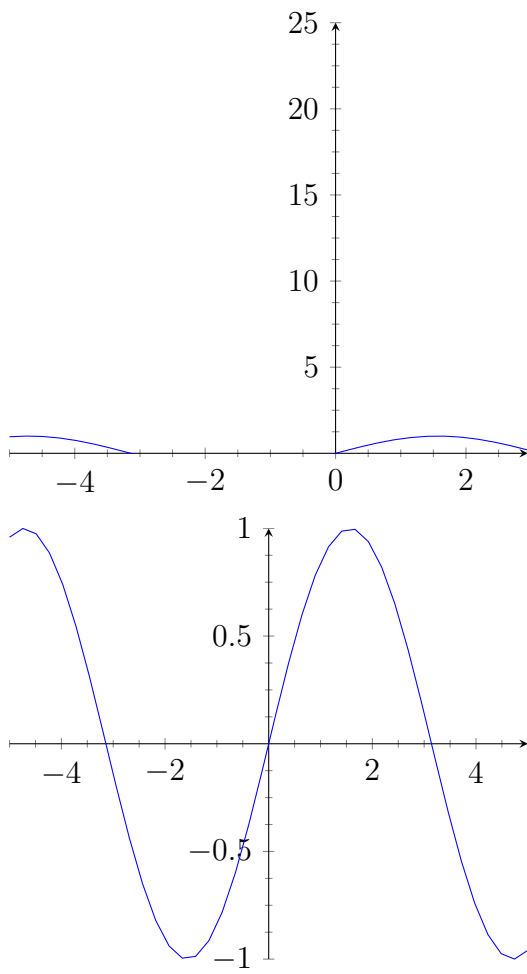
#### 5.1.2 axis y line/ axis x line



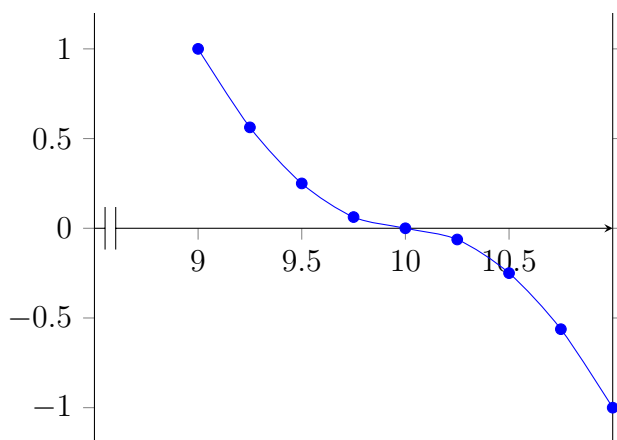
## 5.1.3 axis [xy] line/ tick align/ y discontin

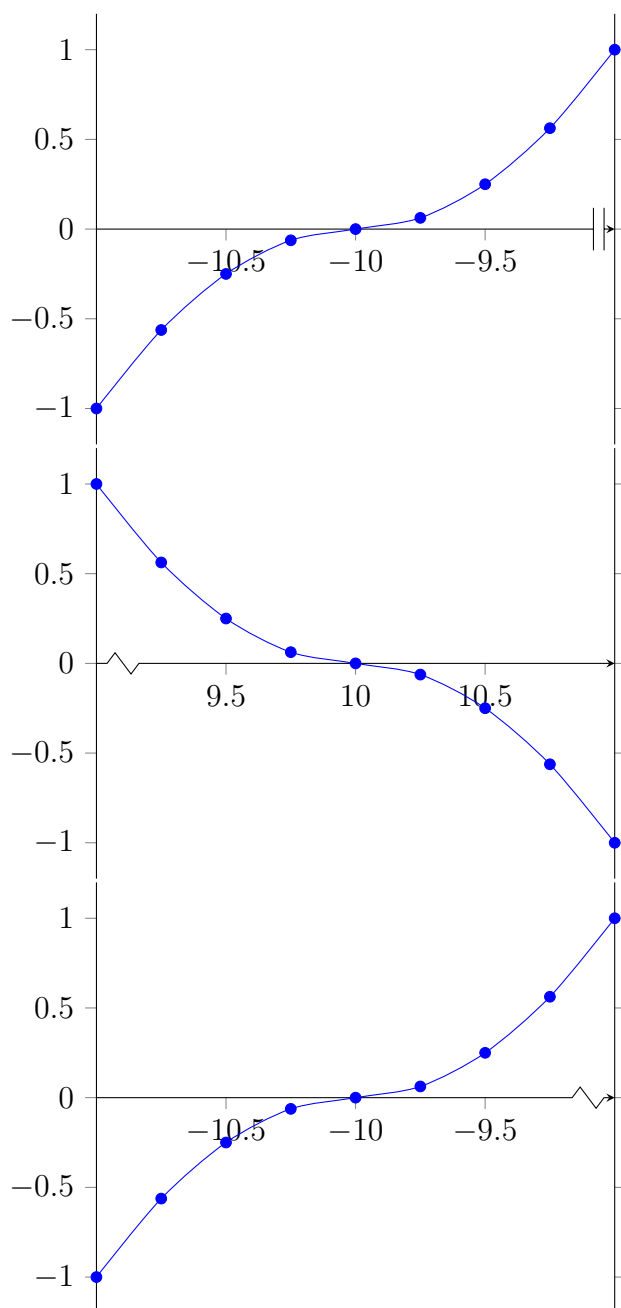


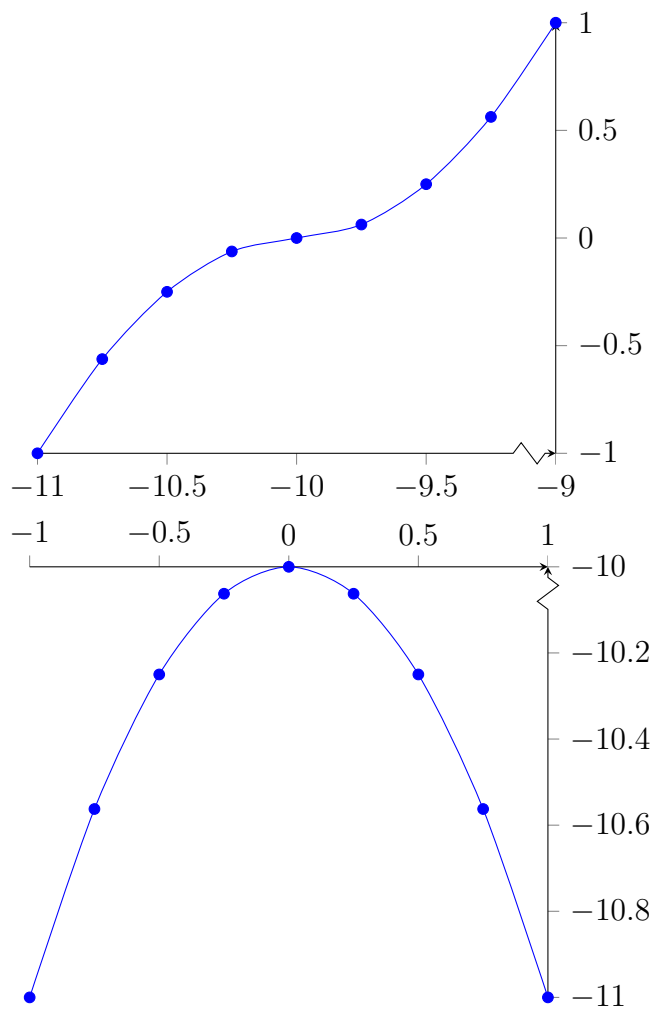




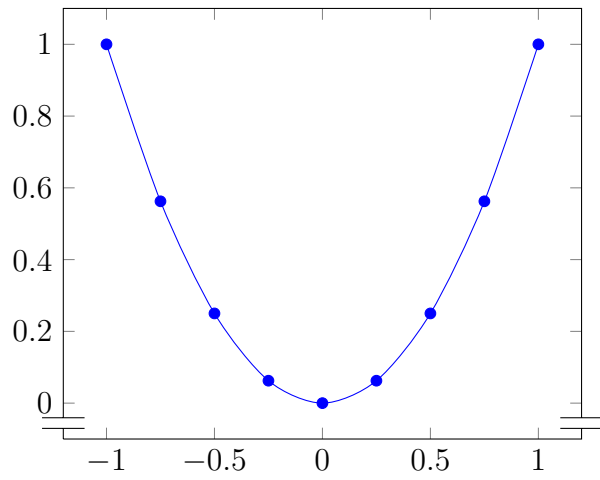
#### 5.1.4 axis [xy] line/ tick align/ x discount





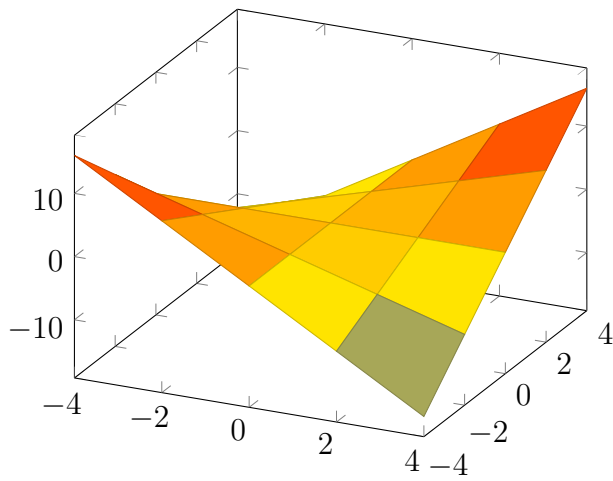


## 5.1.5 axis y discontinuity

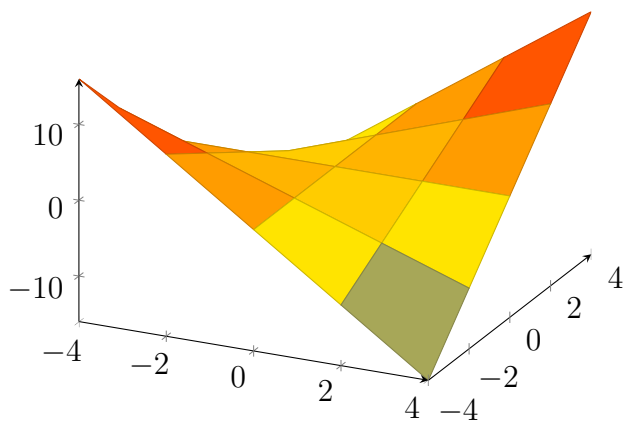


## 6 pgfplotstest.axislines.3d.tex

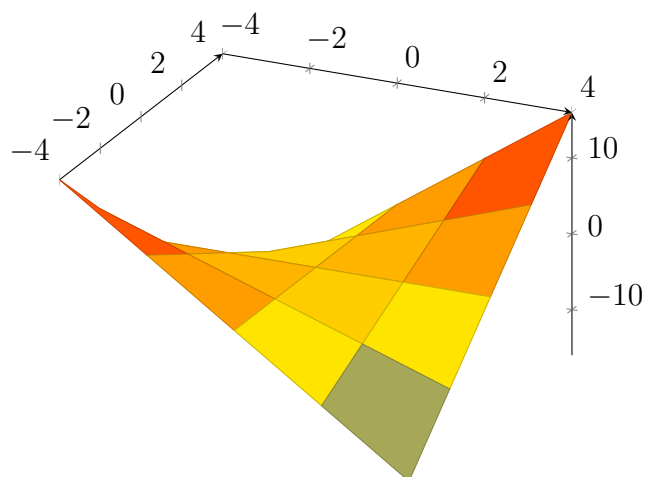
### 6.1 Boxed



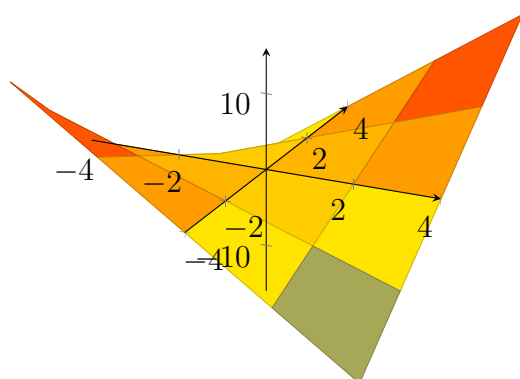
### 6.2 axis lines=left



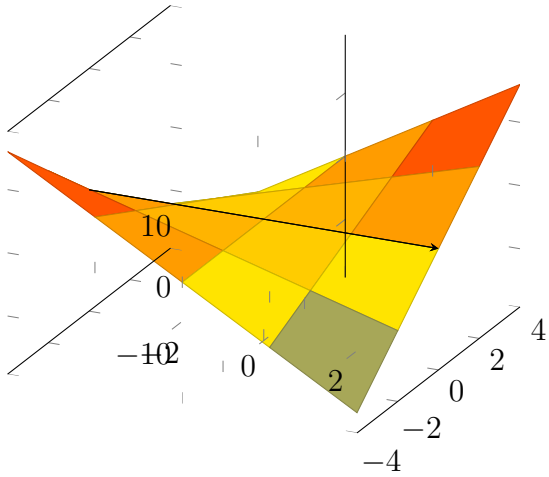
## 6.3 axis lines=right



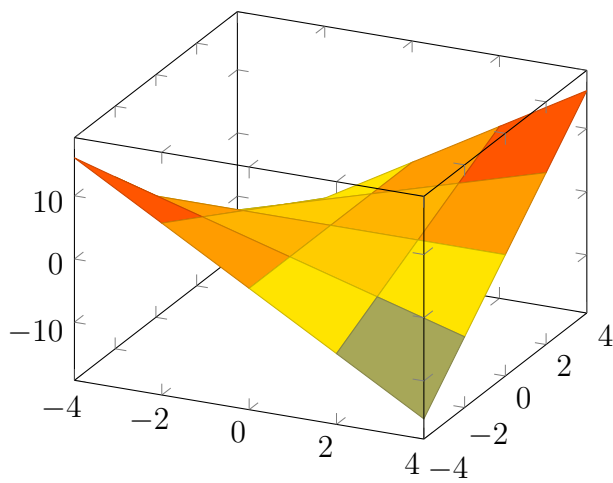
## 6.4 axis lines=middle,axis on top



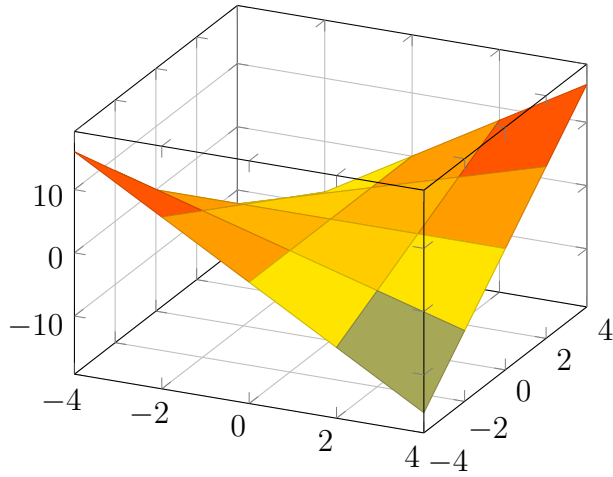
### 6.5 Only axis x line=middle



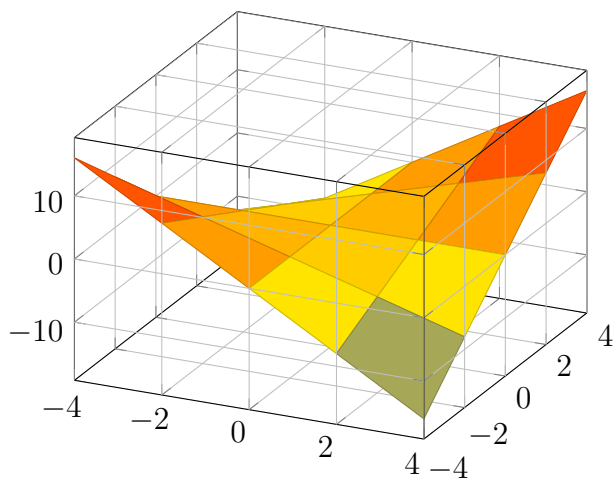
### 6.6 3d box=complete



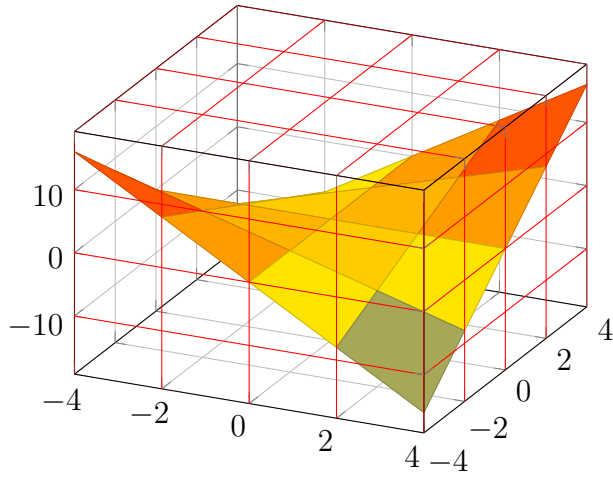
### 6.6.1 grid lines



### 6.6.2 grid lines und completeSTAR

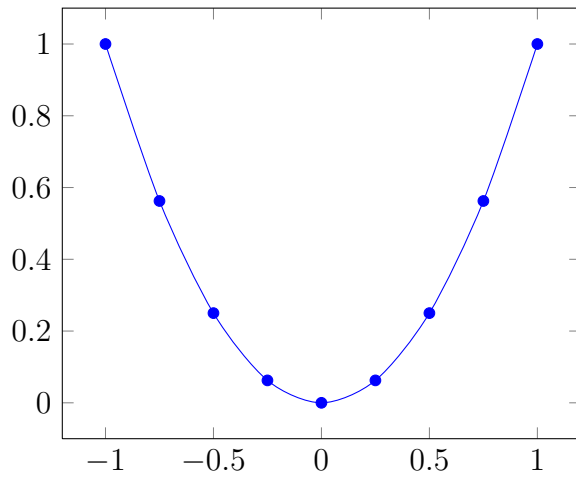


### 6.6.3 grid lines und completeSTAR und styles



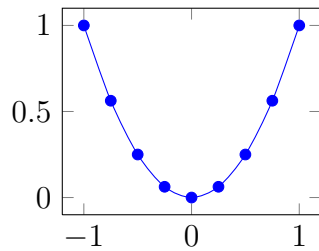
## 7 pgfplotstest.scaling.tex

### 7.1 Standard placement normal plot

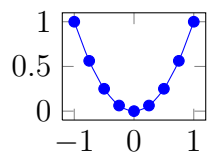


### 7.2 Scaling tests

#### 7.2.1 width=5cm

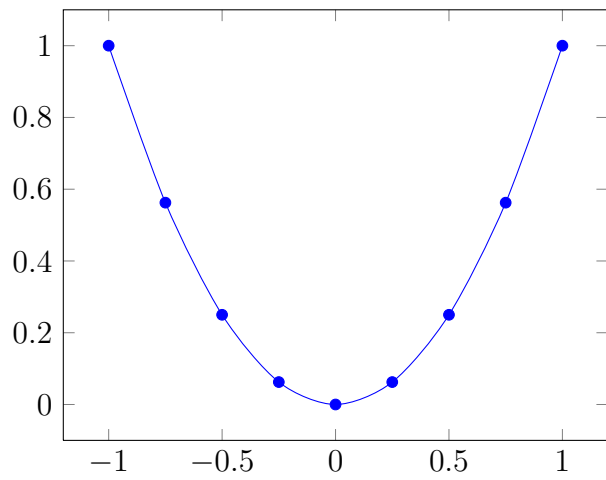


#### 7.2.2 height=3cm

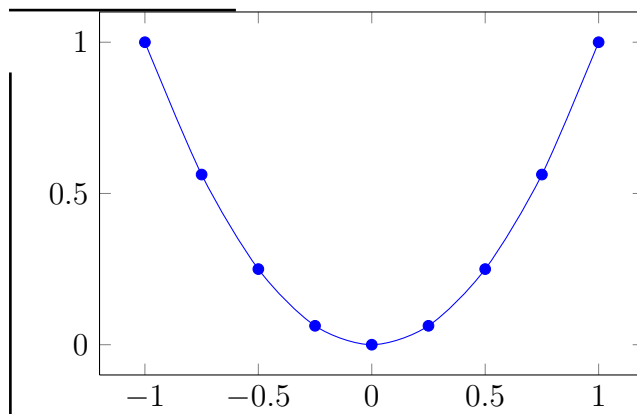


#### 7.2.3 x=3cm

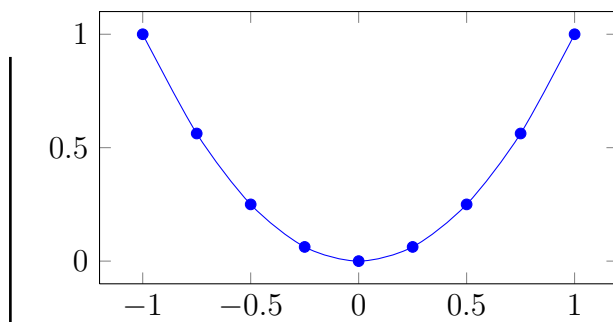
---



7.2.4  $x=3\text{cm}$ ,  $y=4\text{cm}$



7.2.5  $y=3\text{cm}$



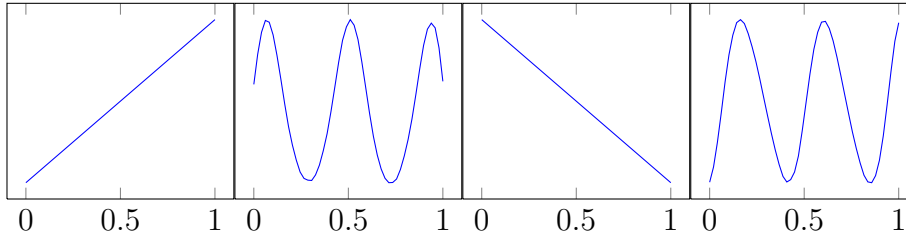
### 7.2.6 Scale vs. Datascale trafo

All should have the same size; especially the same height. This tests the data scale transformation and rounding inaccuracies during the computation of  $x$  and  $y$  unit vectors,

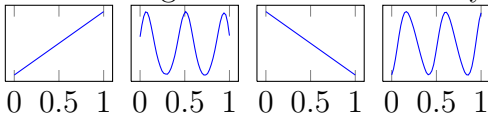
$$x = \frac{W}{T(\bar{x}) - T(\underline{x})}.$$

The larger  $x$ , the higher the scaling accuracy. Large  $x$  means small  $T(\bar{x}) - T(\underline{x})$  (relative to width  $W$ ). But this implies low accuracy for the input data! And nobody wants inaccurate plots.

The datascale transformation  $T$  is set up such that  $O(W) = O(x)$ , but I am not sure if I need to adjust some parameters. Some parameters lead to inaccurate  $x$  and  $y$  vectors, such that axis sizes are not the same although  $W$  and  $H$  (width and height) are the same.

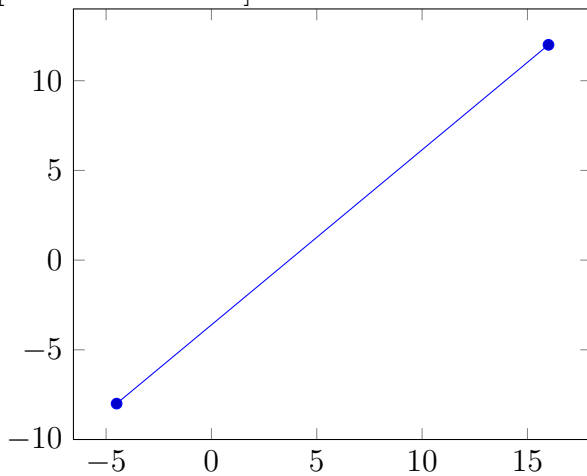


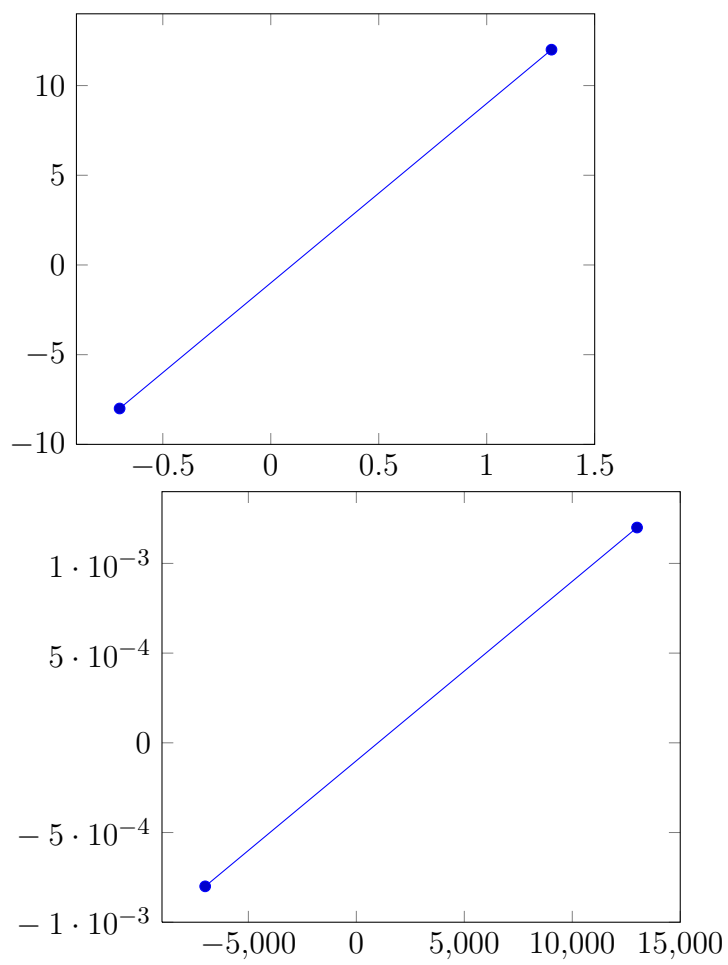
once more again without ‘scale only axis’:



### 7.2.7 Testing numeric artefacts around tick position ‘0’

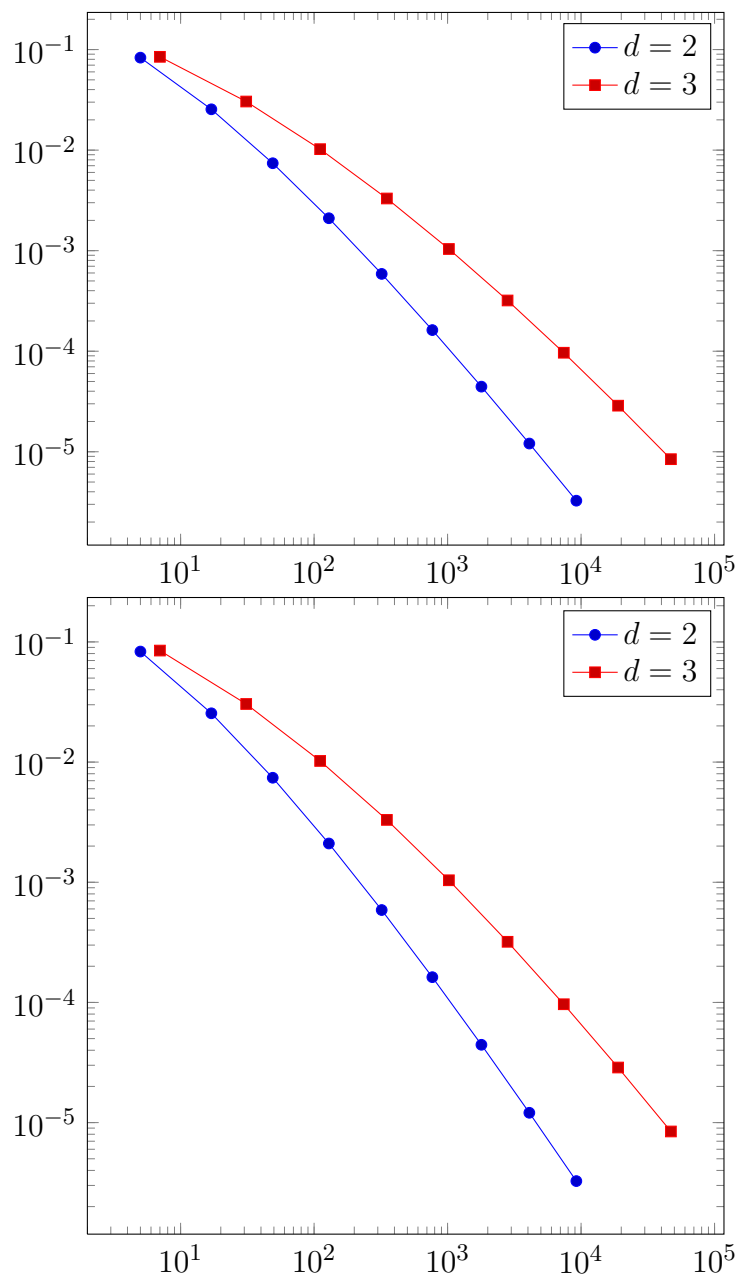
[scaled ticks=false] in this subsection

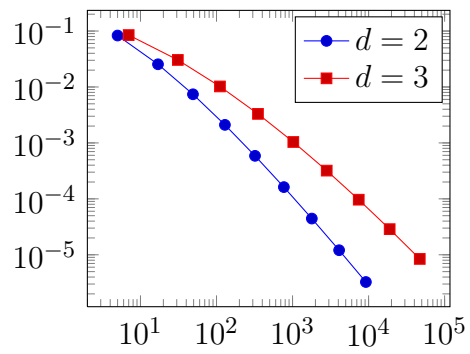




### 7.3 Scaling log plots

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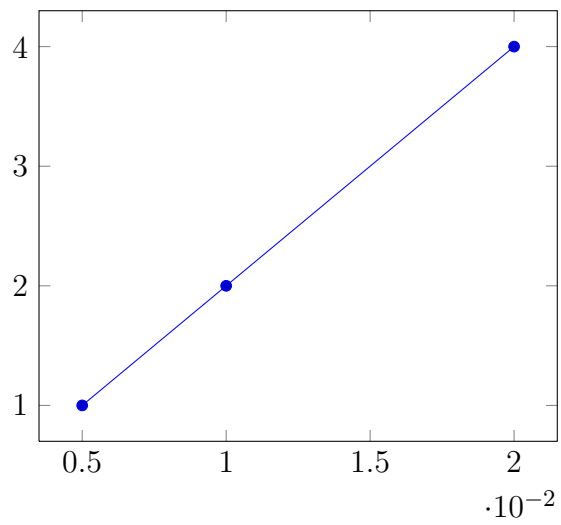


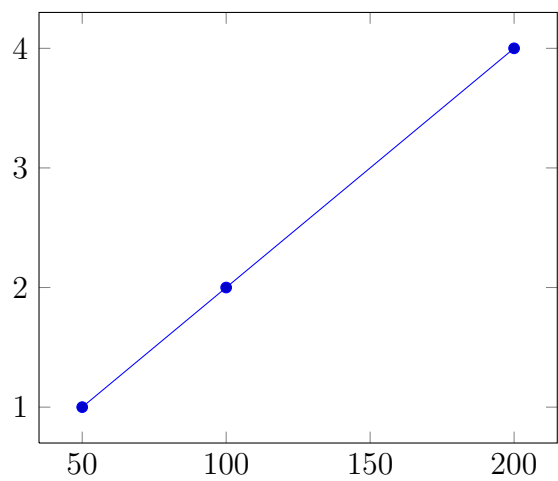
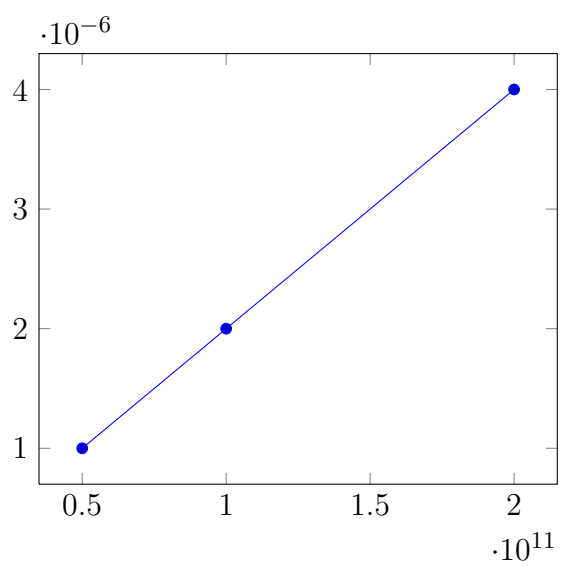
## 7.4 Scaletest



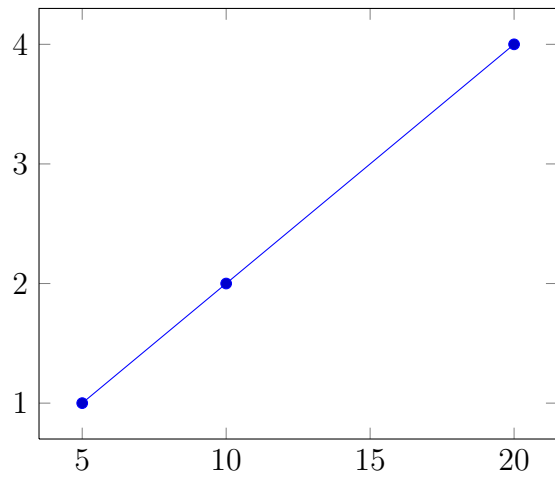
## 7.5 Scaling test for very small or very large x values

### 7.5.1 1e-2

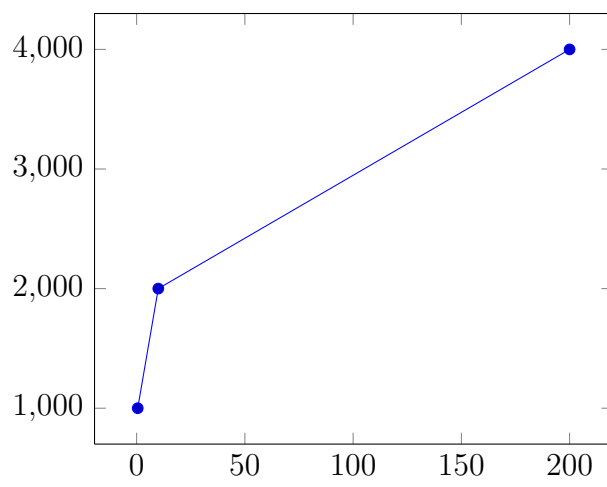


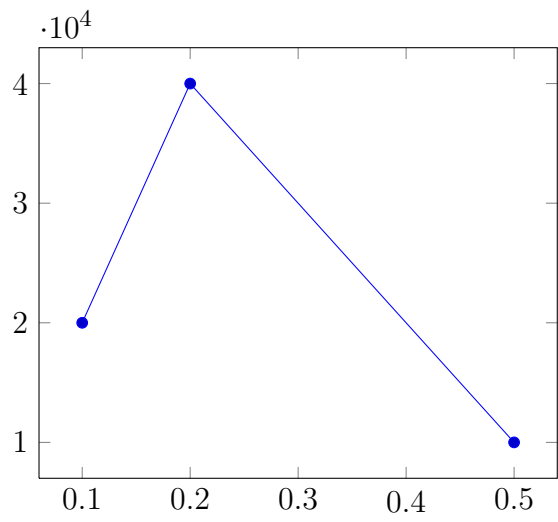
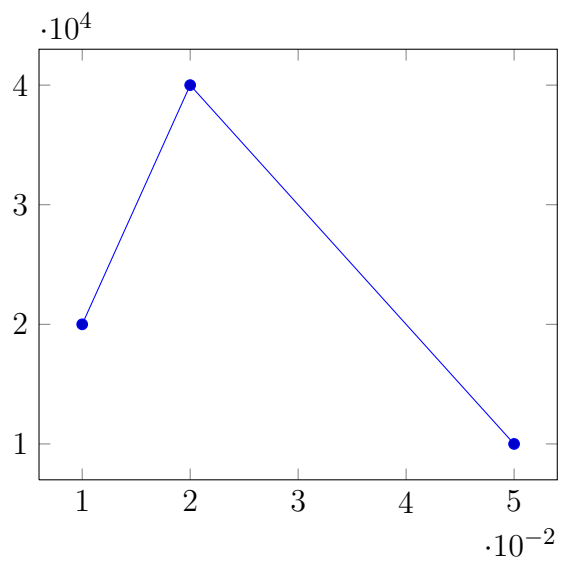
7.5.2  $1e+2$ 7.5.3  $x=1e+11; y=1e-6$ 

7.5.4 1e+1



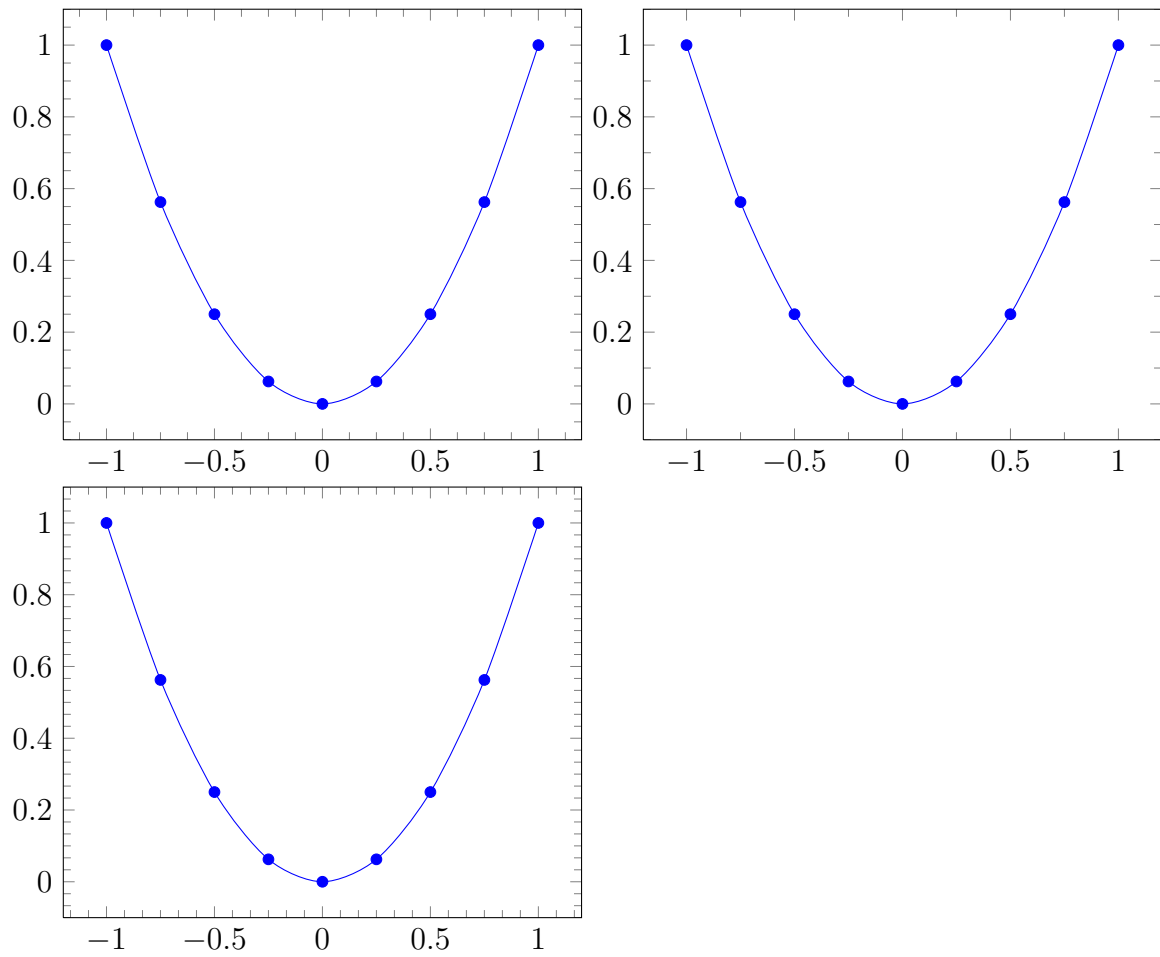
7.5.5 1e+3

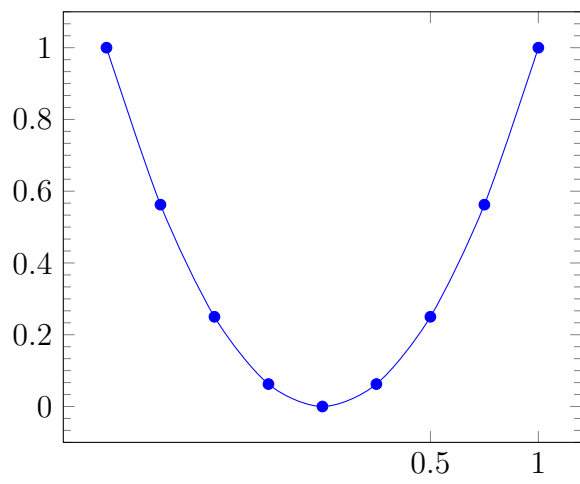


7.5.6  $1e+4$ 7.5.7  $1e-2, 1e+4$ 

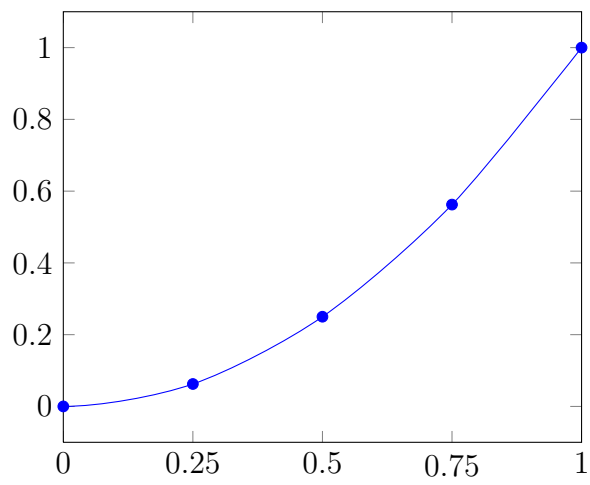
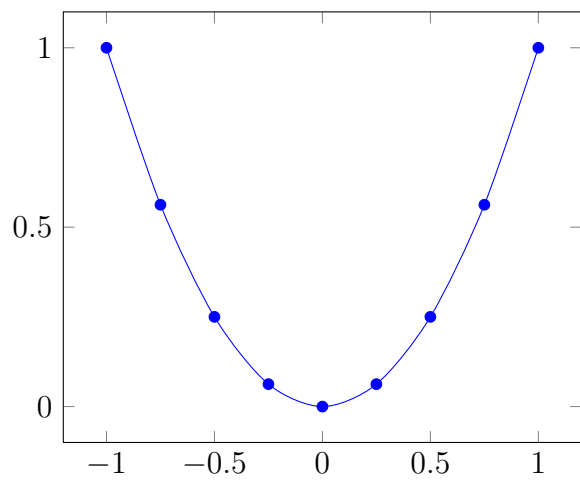
## 8 pgfplotstest.ticks.tex

### 8.1 Minor ticks

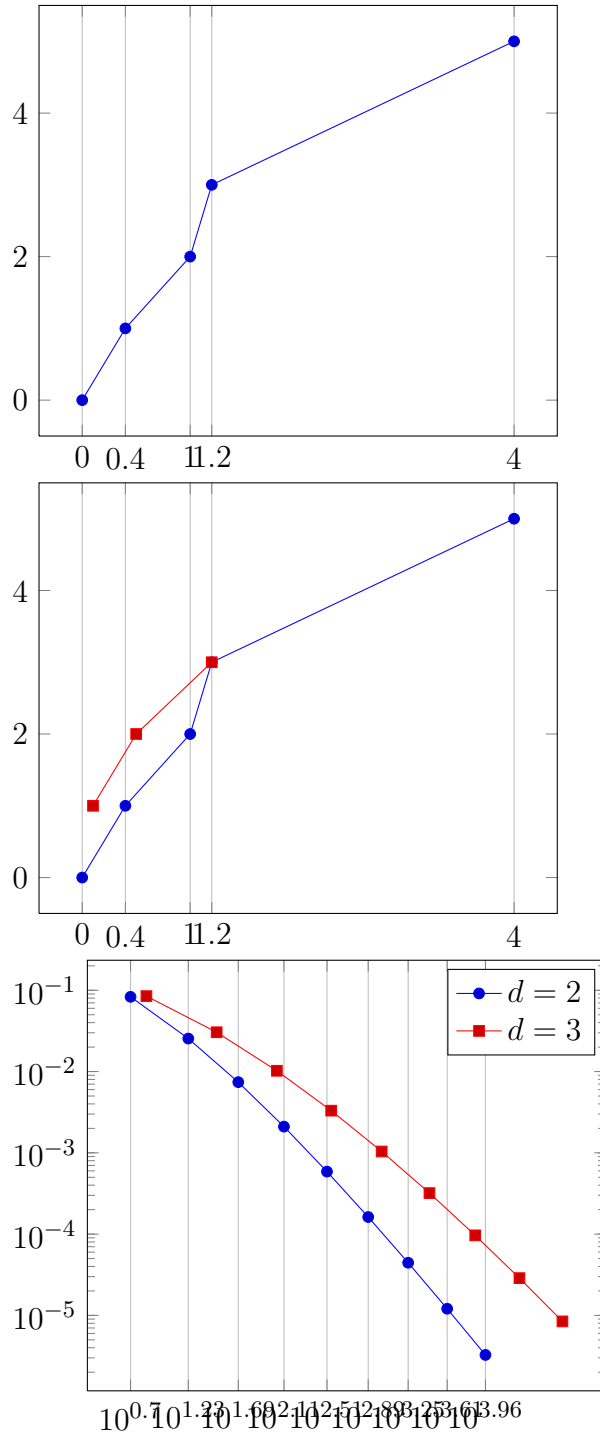




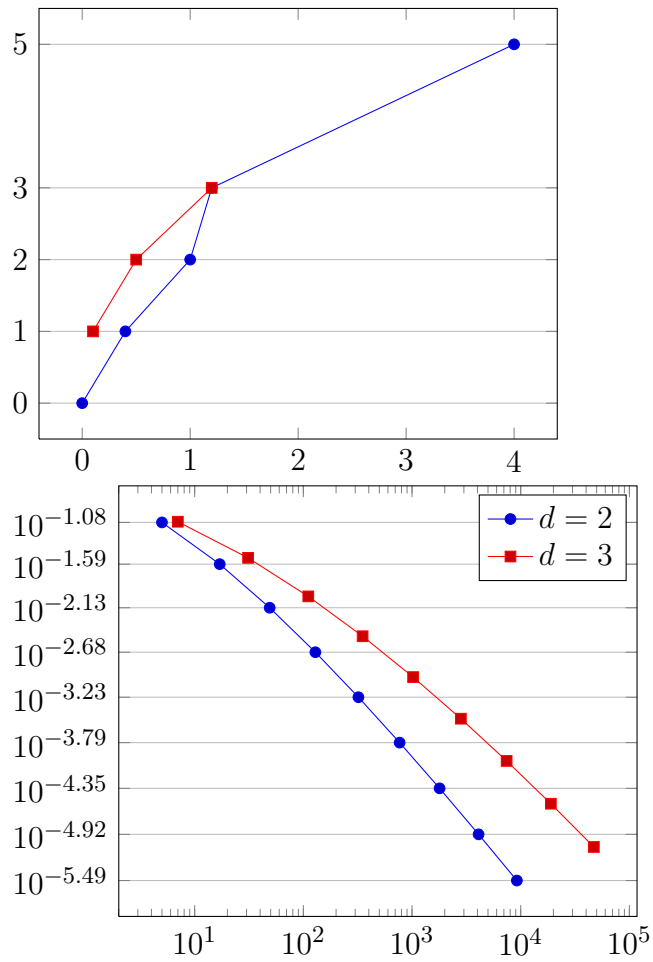
## 8.2 Tick placement



## 8.2.1 xtick=data

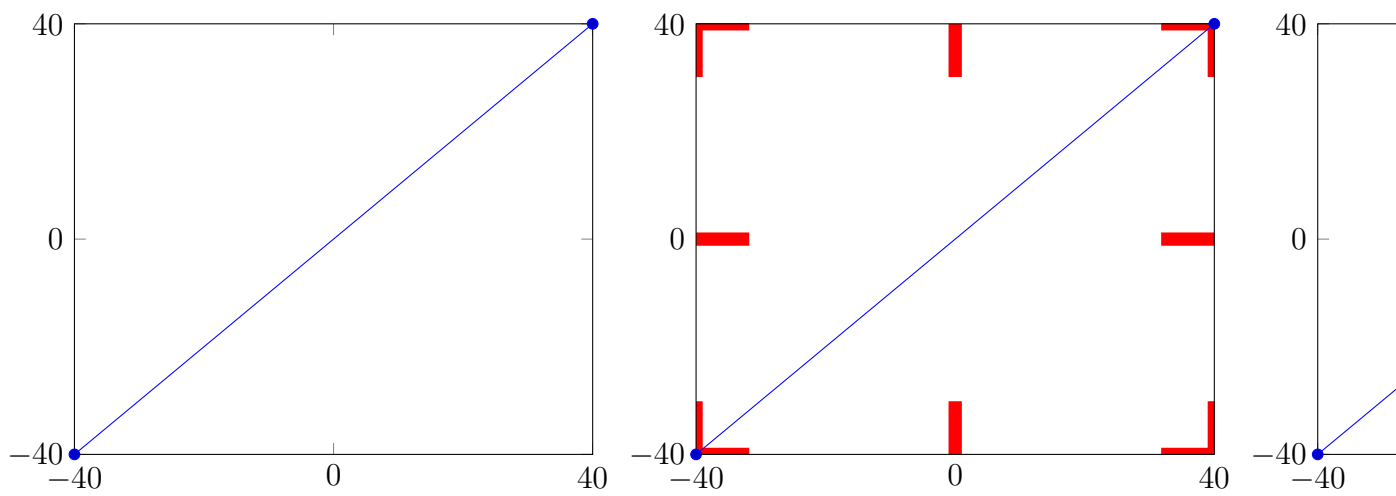


## 8.2.1.1 ytick=data

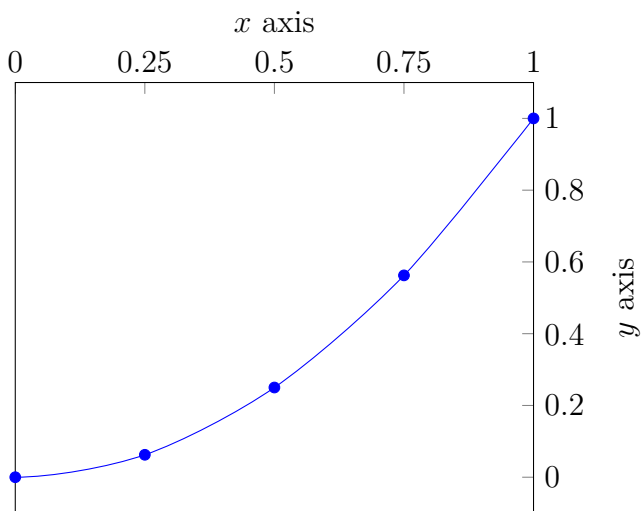


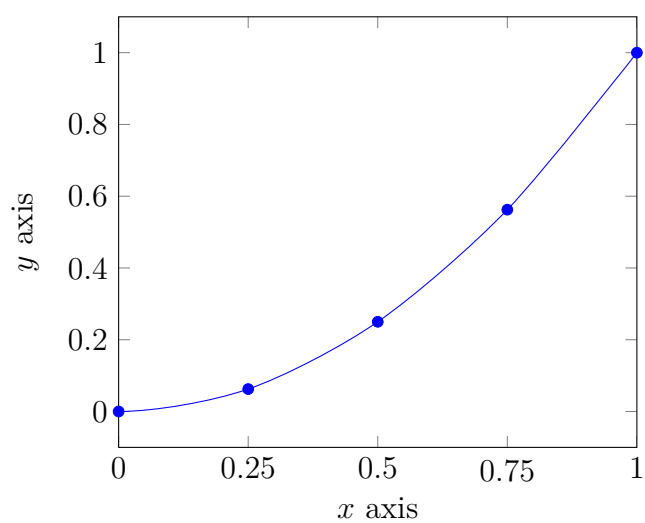
## 8.2.2 ticks on axis rectangle

First plot: default tick style; second plot: red, third: 'help lines'



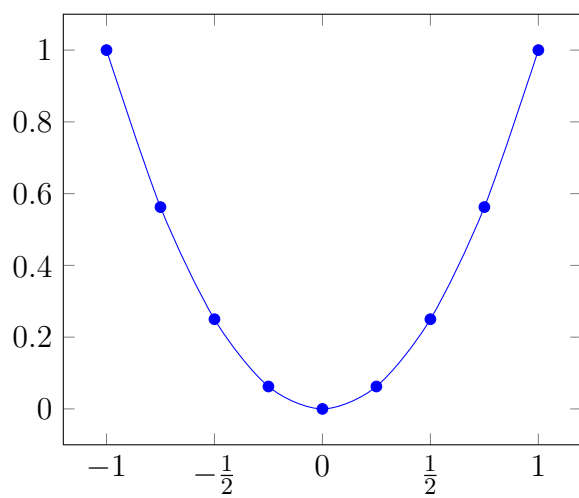
### 8.2.3 modified labels



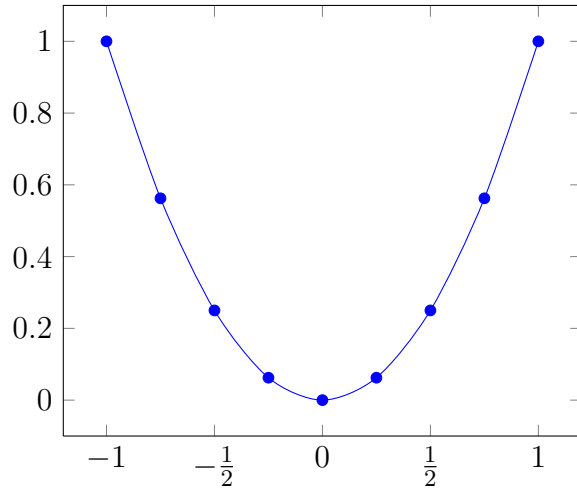


### 8.3 Tick label assignment tests

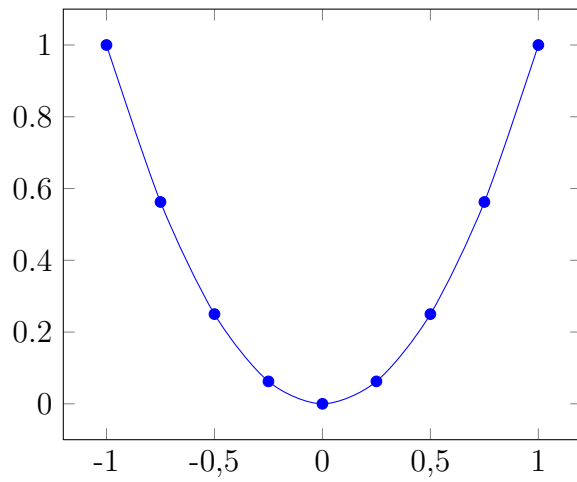
#### 8.3.1 Using xticklabel and xtick



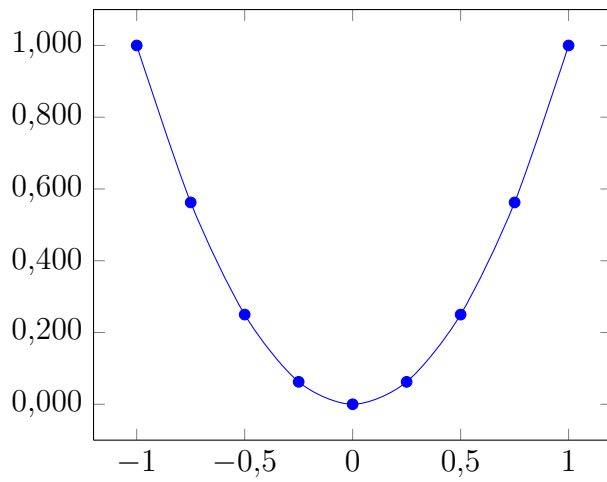
### 8.3.2 Using xticklabels



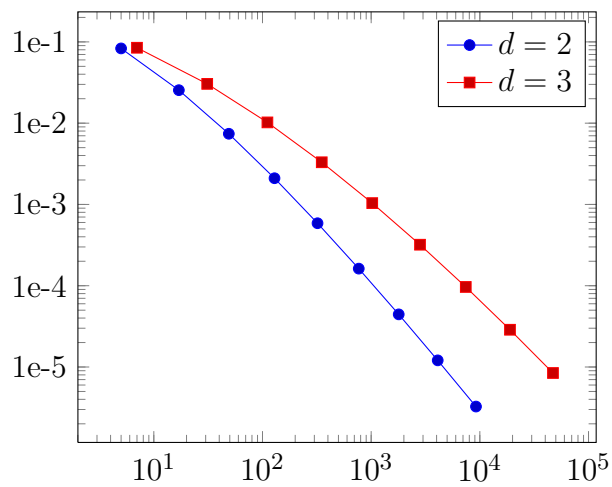
### 8.3.3 With xtick labels and commas by hand



### 8.3.4 Only with auto number formatting options; different for x and y

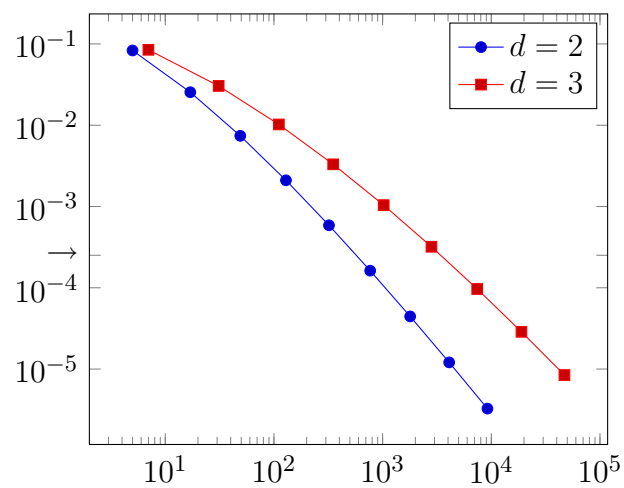


### 8.3.5 Using yticklabels in logplot

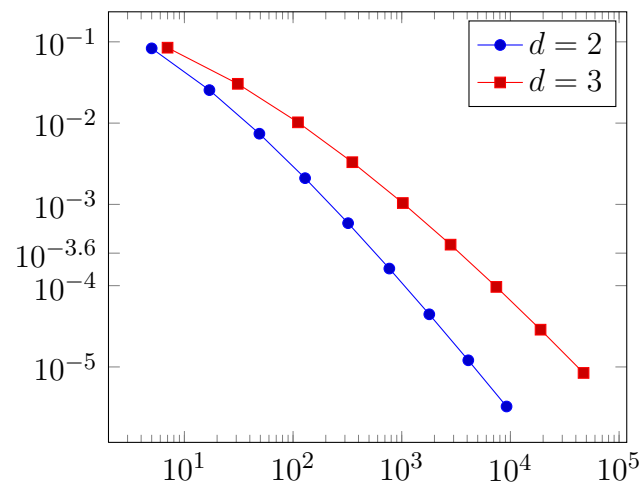


## 8.4 Tick/Tick-Label placement log plots

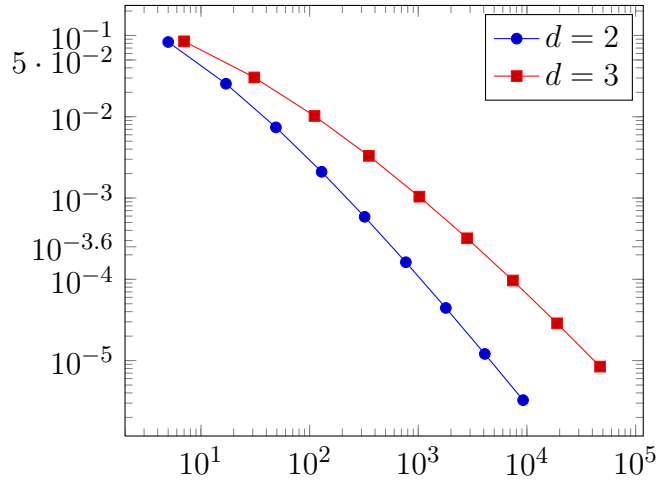
### 8.4.1 ytickten



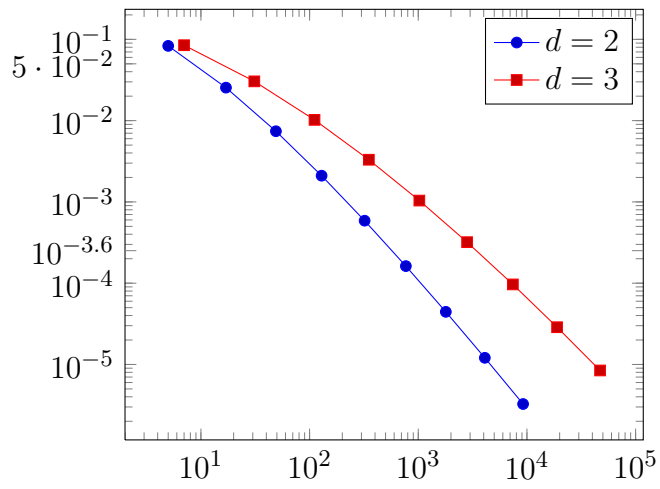
### 8.4.2 ytick



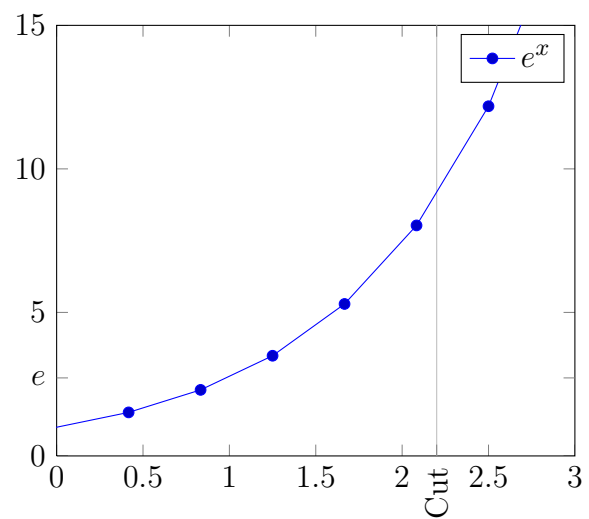
## 8.4.3 extra y ticks



## 8.4.4 extra y ticks and formatted label



## 8.4.5 extra x and y ticks, linear plot



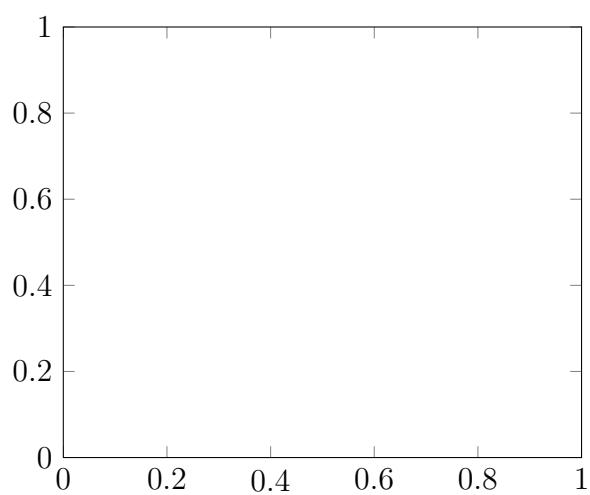
## 9 pgfplotstest.enlargelimits.tex

### 9.1 Limit computation

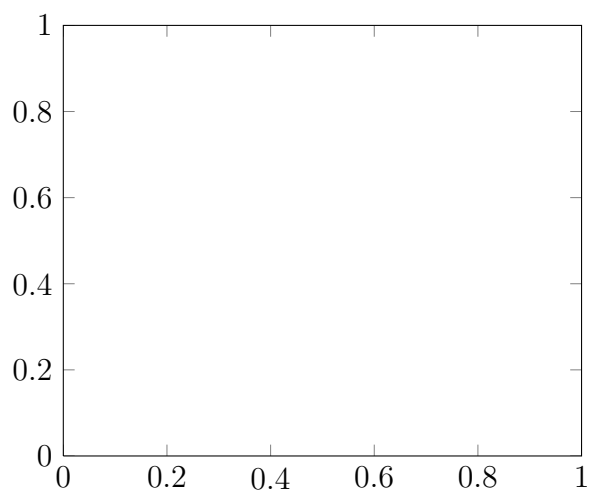
#### 9.1.1 User specified limits

[scaled ticks = false,enlargelimits=false] in this section

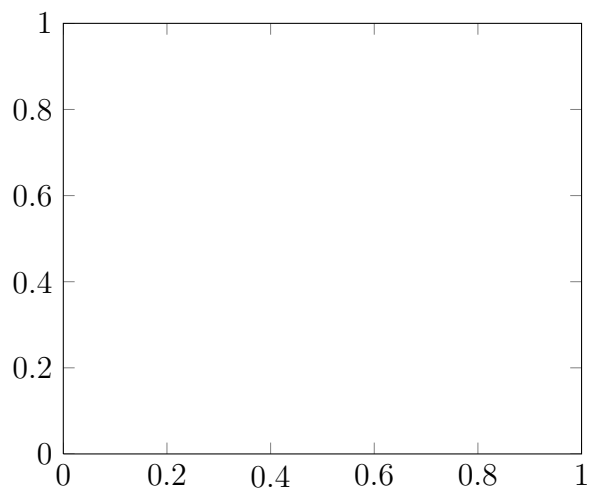
##### 9.1.1.1 linear plot, unconstraint



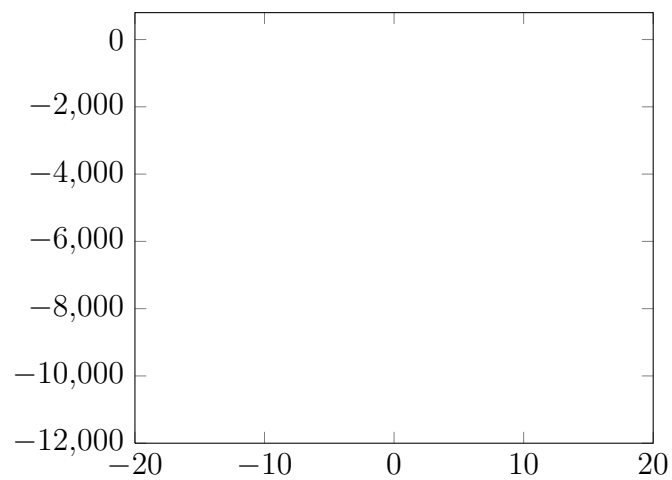
##### 9.1.1.2 linear plot, limited to $x \in [-20, 20]$



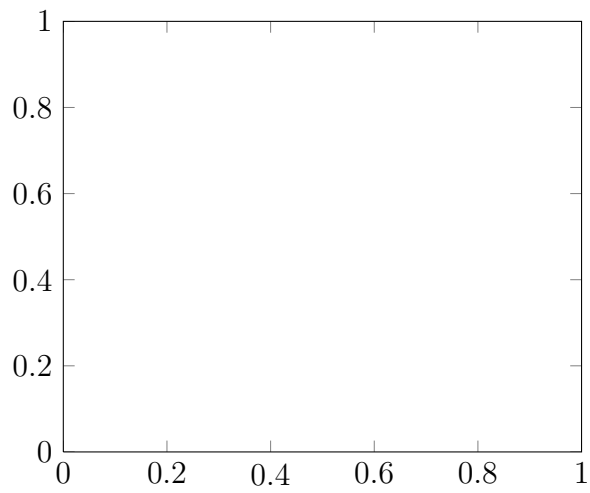
9.1.1.3 linear plot, limited to  $y \in [-12000, 800]$



9.1.1.4 linear plot, limited to  $x \in [-20, 20]; y \in [-12000, 800]$



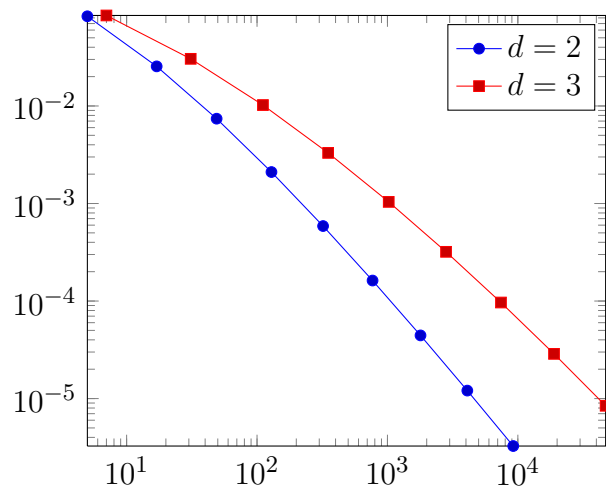
### 9.1.1.5 linear plot, limited to empty $x$ -range



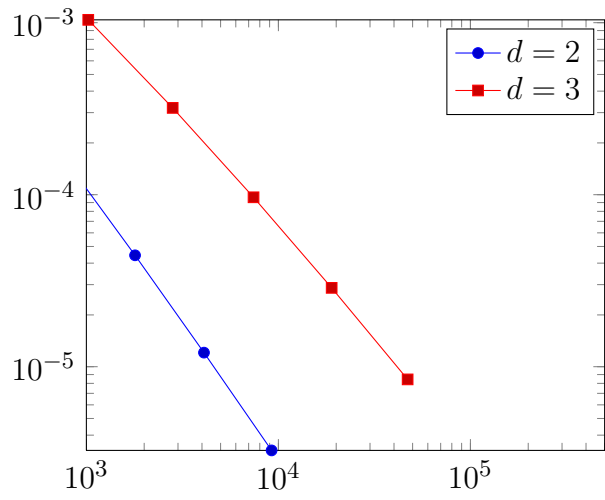
### 9.1.2 Log plots

Log-plots use the same code; they should work in the same way!

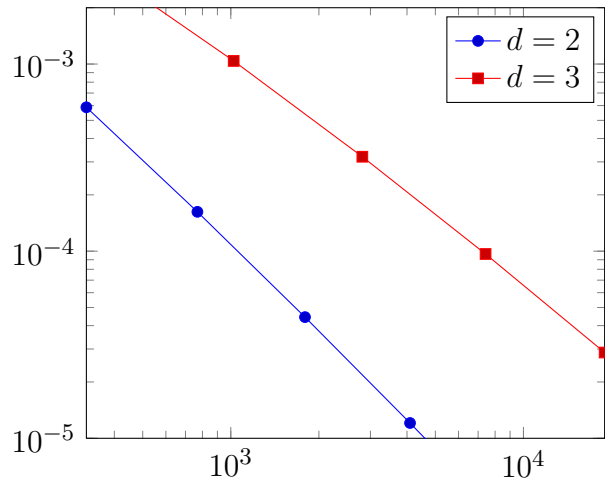
#### 9.1.2.1 log plot unconstrained



### 9.1.2.2 log plot limited to $x \in [10^3, 5 \cdot 10^5]$

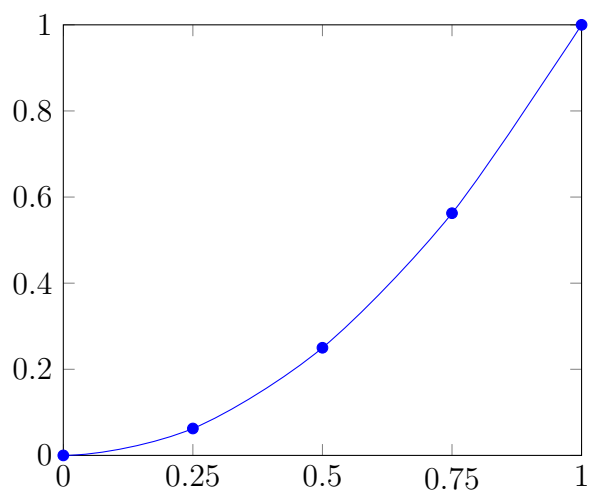


### 9.1.2.3 log plot limited to $y \in [10^{-5}, 2 \cdot 10^{-3}]$

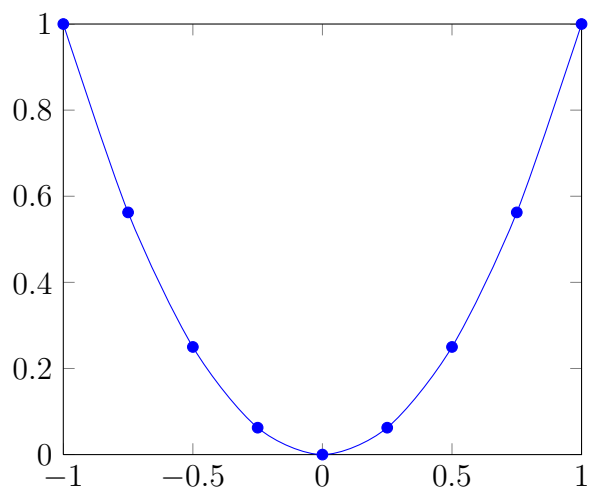


### 9.1.3 Enlargelimits tests

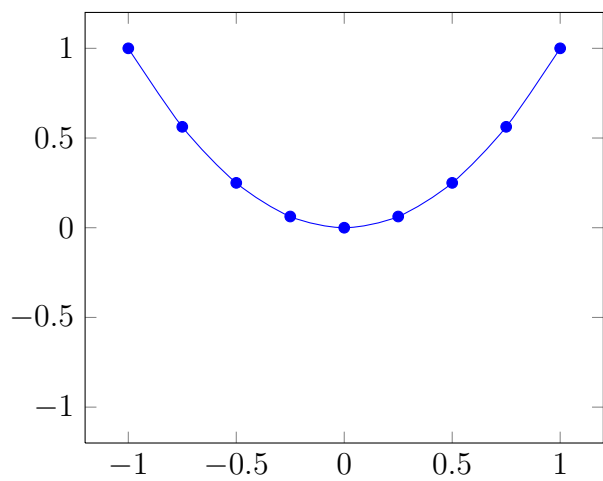
#### 9.1.3.1 enlargelimits=false, x limits provided



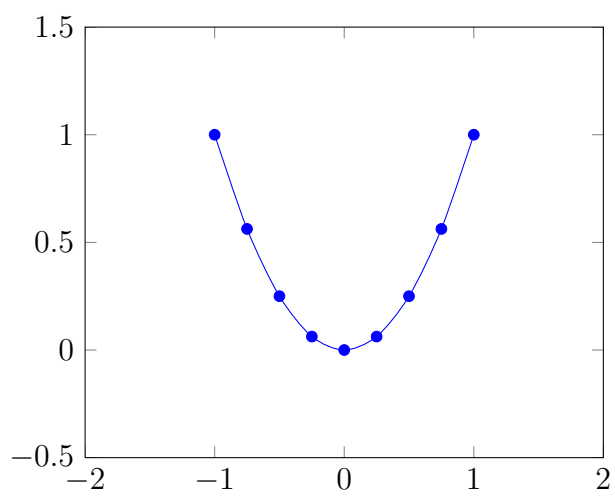
#### 9.1.3.2 enlargelimits=false, no limits provided



9.1.3.3 enlargelimits=true, all limits provided  $[-1, 1] \times [-1, 1]$



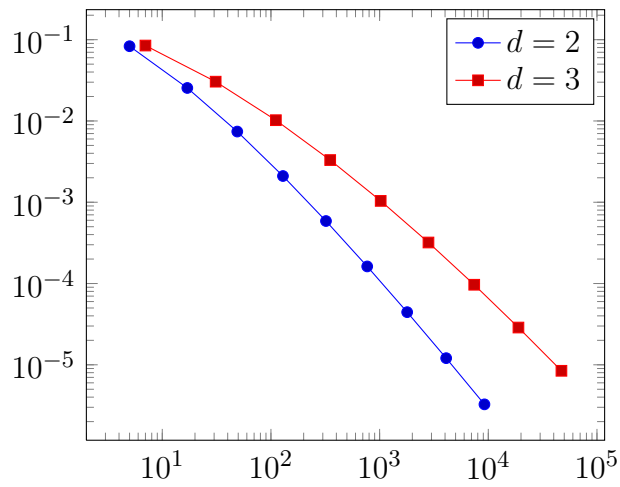
9.1.3.4 enlargelimits=0.5



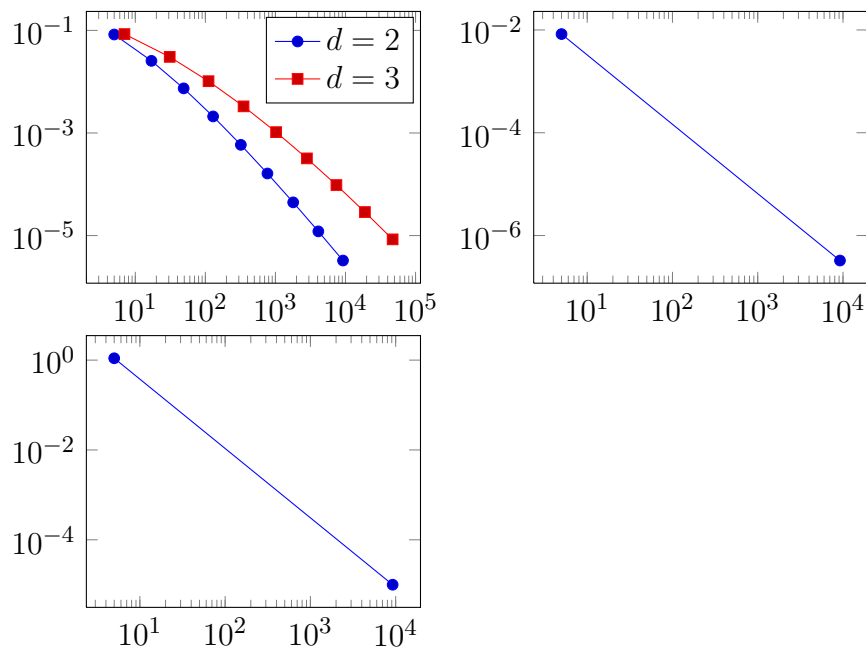
## 10 pgfplotstest.logplotenv.tex

### 10.1 Default options log plot

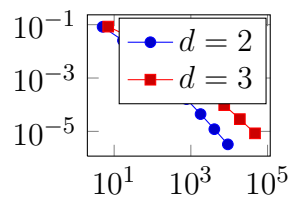
#### 10.1.1 Default size



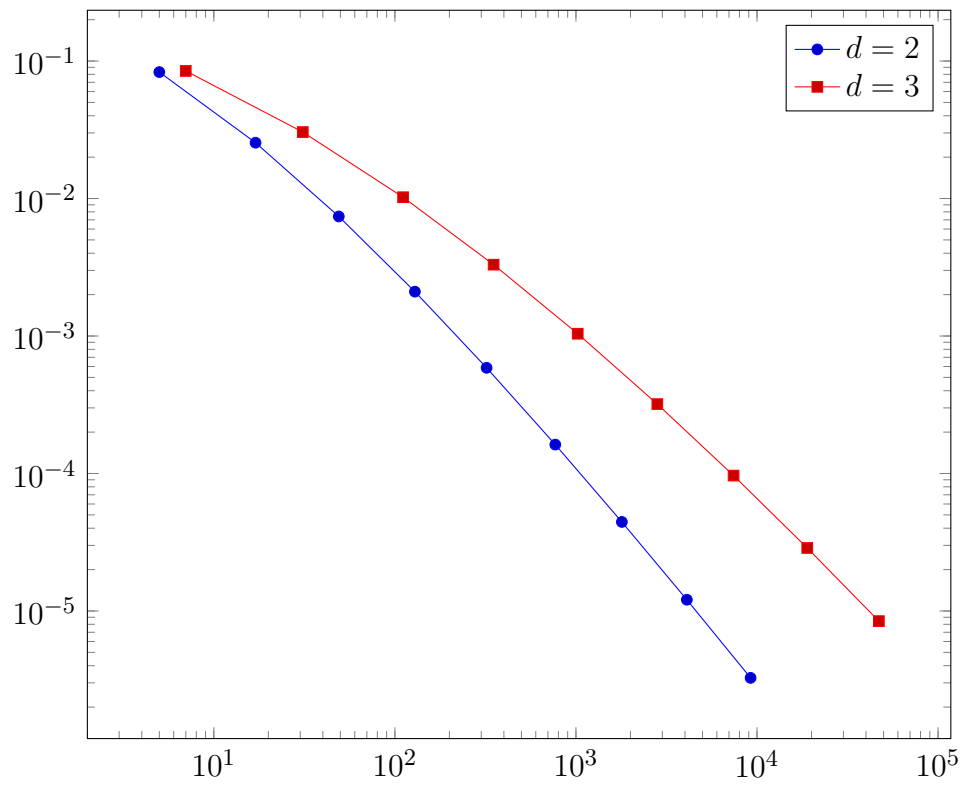
#### 10.1.2 Small size



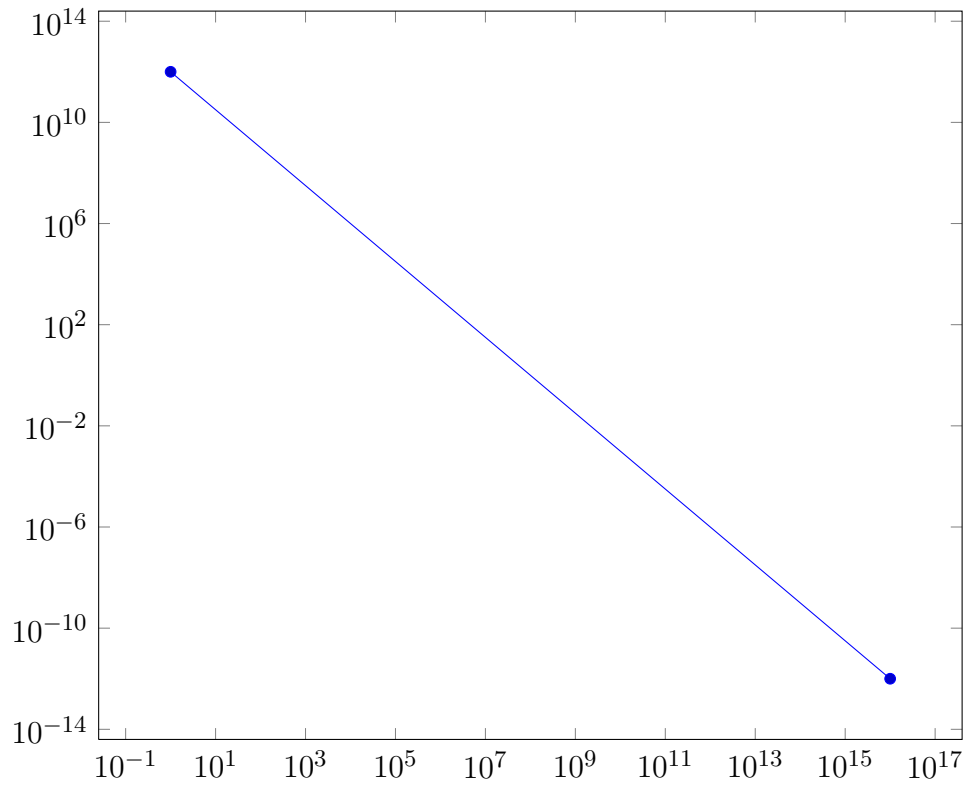
## 10.1.3 Very small size



## 10.1.4 Large size

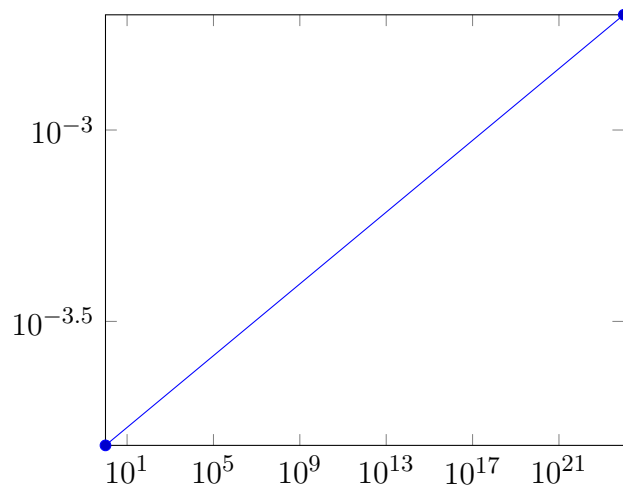


### 10.1.5 Large size; large range



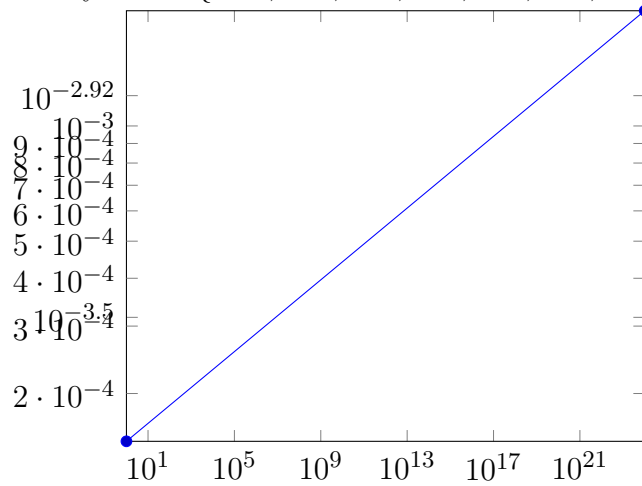
### 10.1.6 Extremely small y range for log plot

#### 10.1.6.1 Without extra ticks, enlargelimits=false

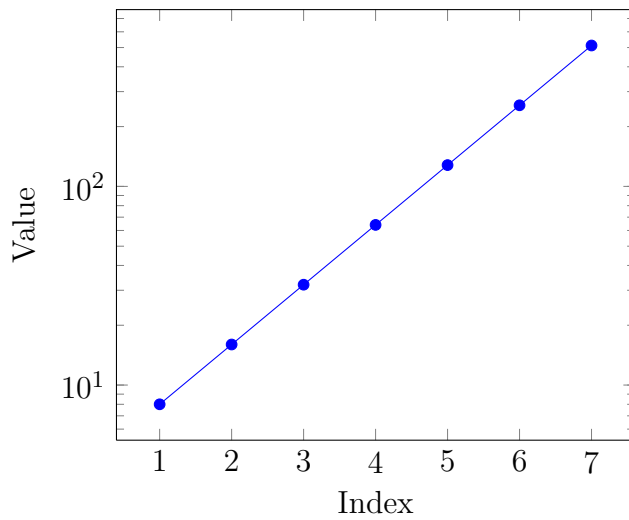


### 10.1.6.2 With extra ticks, enlargelimits=false

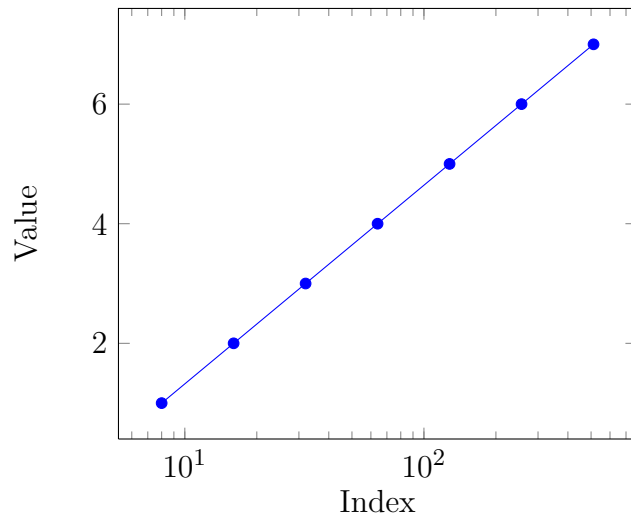
extra y ticks={2e-4,3e-4,4e-4,5e-4,6e-4,7e-4,8e-4,9e-4,1.2e-3}



### 10.2 Semilogy plot



### 10.3 Semilogx plot

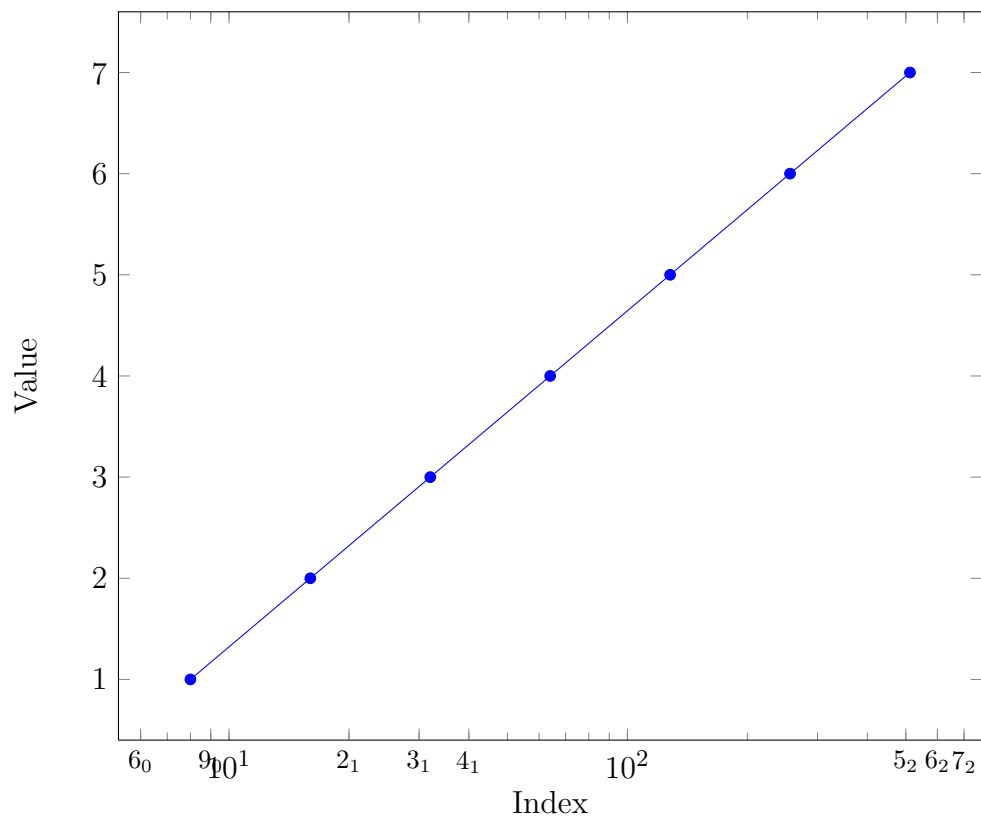


#### 10.3.1 Extra ticks

Options:

`extra x ticks={6e0,9e0,2e1,3e1,4e1,5e2,6e2,7e2,8e2,9e2},`

`extra x tick style={/pgf/number format/sci subscript,font=footnotesize},`



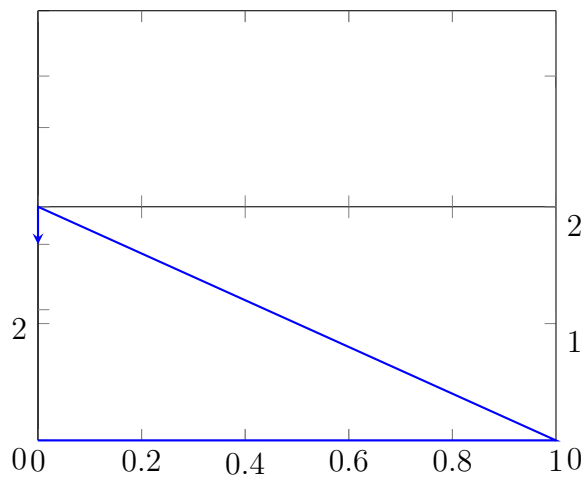
# 11 pgfplotstest.3d.tex

## 11.1 View

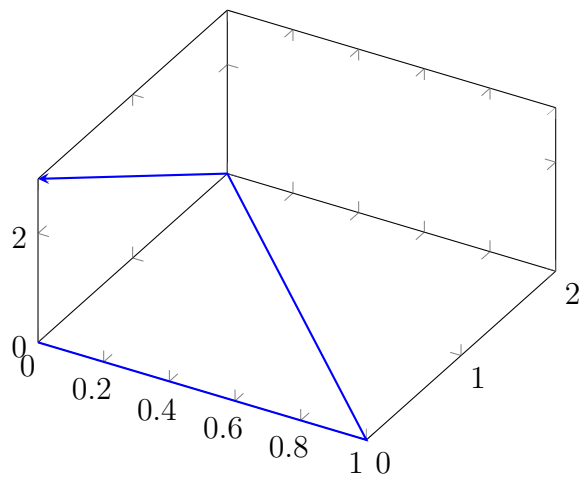
The following test plot has

### 11.1.1 Test von YAW

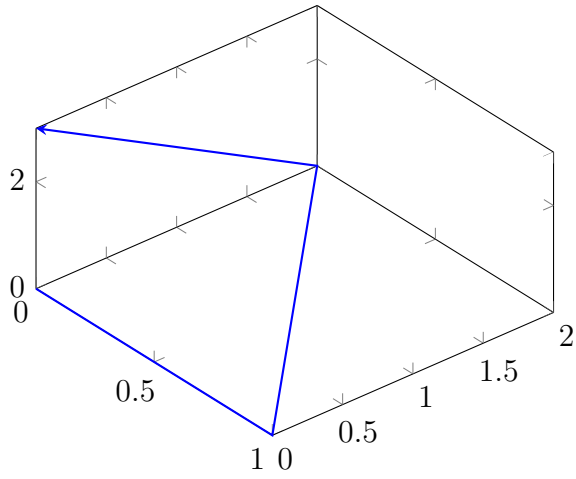
#### 11.1.1.1 fÄijr {0}{50}:



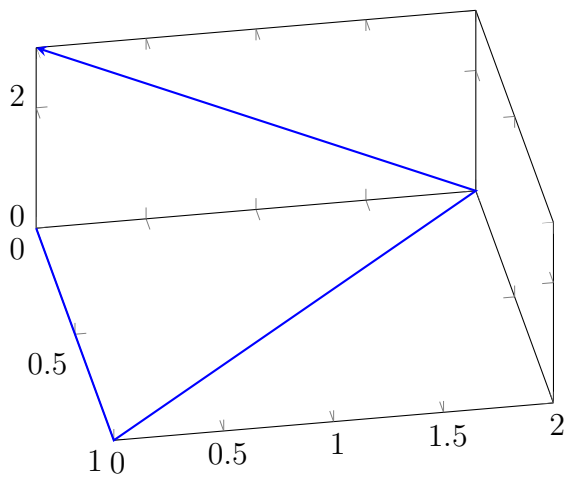
#### 11.1.1.2 fÄijr {30}{50}:



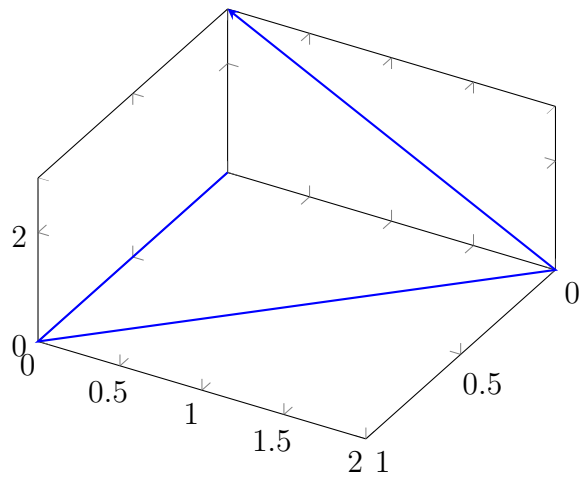
11.1.1.3 fÄijr {50}{50}:



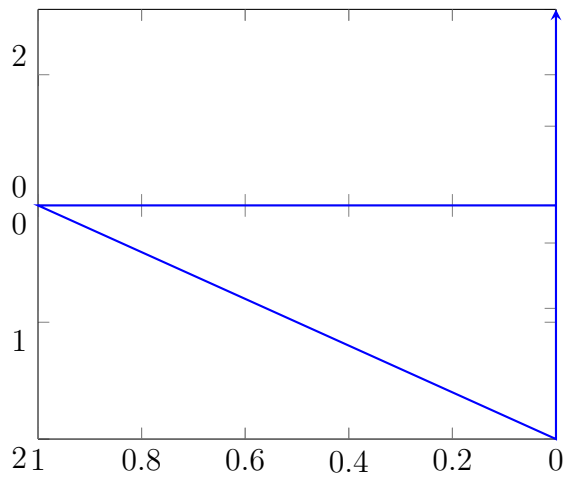
11.1.1.4 fÄijr {80}{50}:



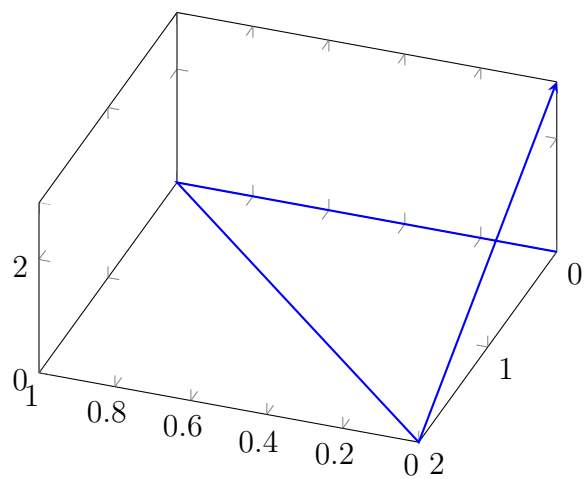
11.1.1.5  $f\tilde{A}_{ijr} \{120\}\{50\}$ :



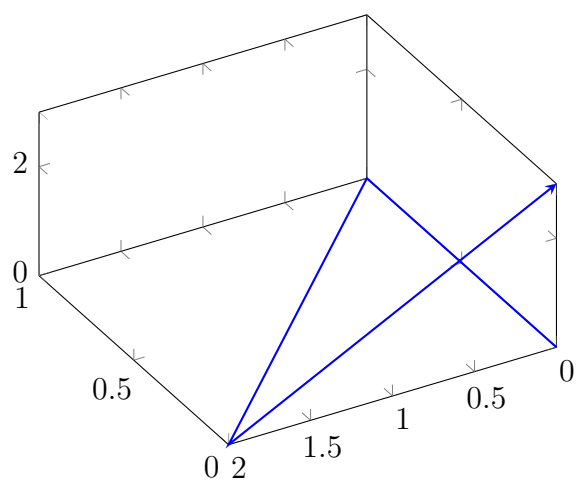
11.1.1.6  $f\tilde{A}_{ijr} \{180\}\{50\}$ :



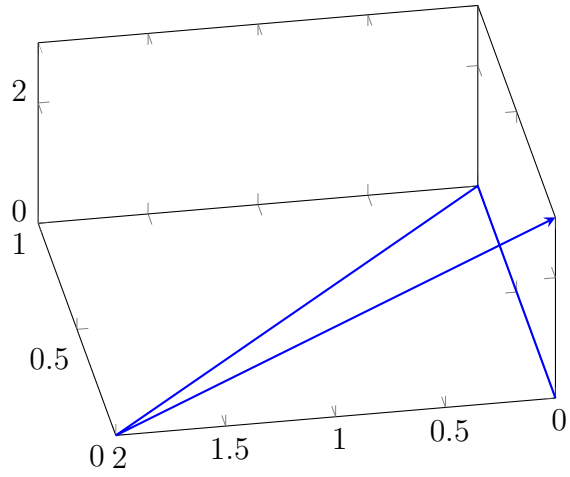
11.1.1.7  $f\tilde{A}_{ijr} \{200\}\{50\}$ :



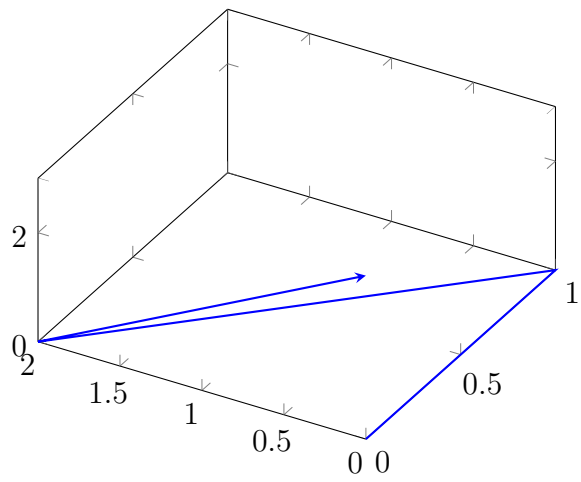
11.1.1.8  $f\tilde{A}_{ijr} \{240\}\{50\}$ :



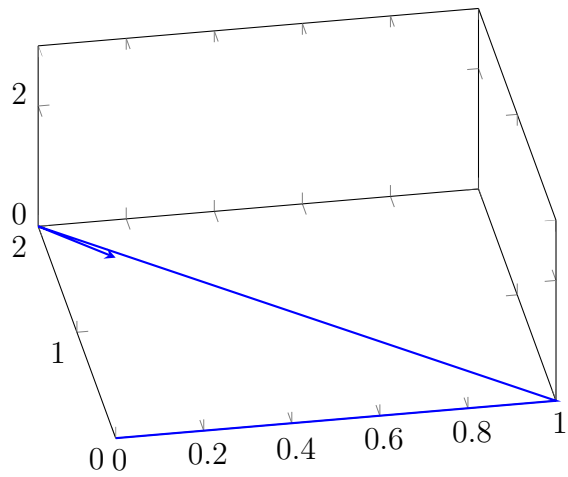
11.1.1.9  $f_{\tilde{A}ijr} \{260\}\{50\}$ :



11.1.1.10  $f_{\tilde{A}ijr} \{300\}\{50\}$ :

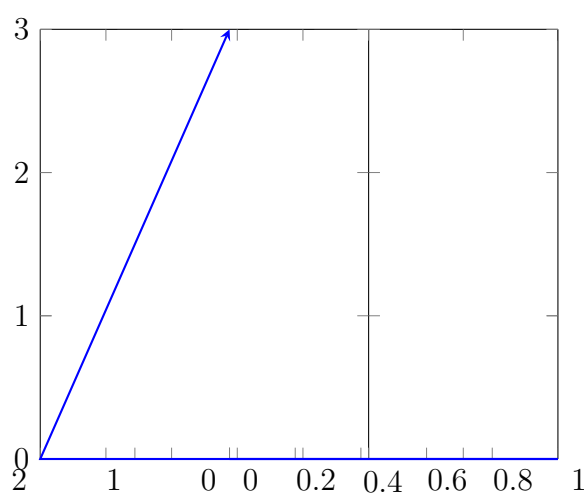


11.1.1.11  $f_{\tilde{A}ijr} \{350\}\{50\}$ :

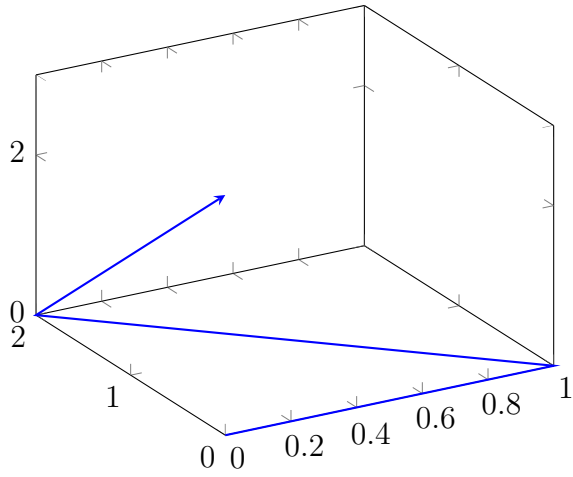


11.1.2 Test von PITCH

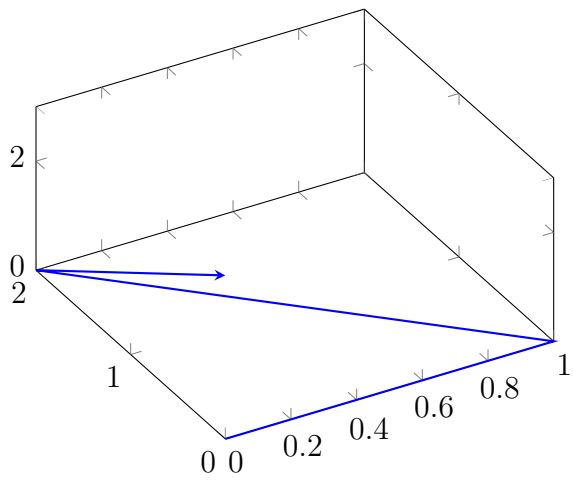
11.1.2.1  $f_{\tilde{A}ijr} \{-30\}\{0\}$ :



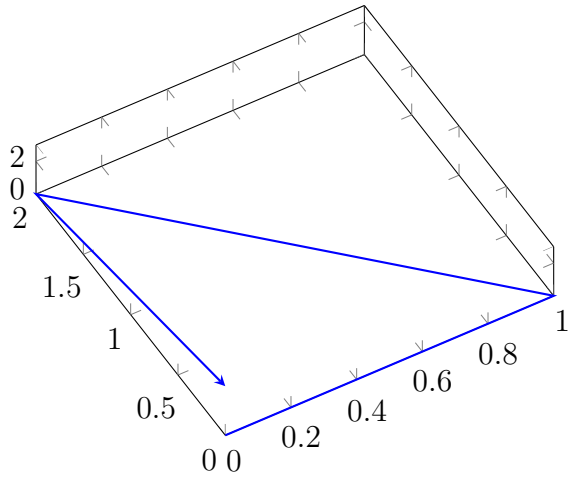
11.1.2.2  $\tilde{f}_{\tilde{A}ijr} \{-30\}\{30\}$ :



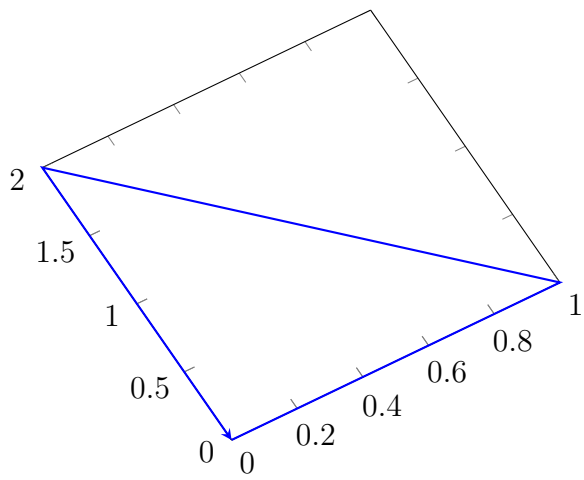
11.1.2.3  $\tilde{f}_{\tilde{A}ijr} \{-30\}\{50\}$ :



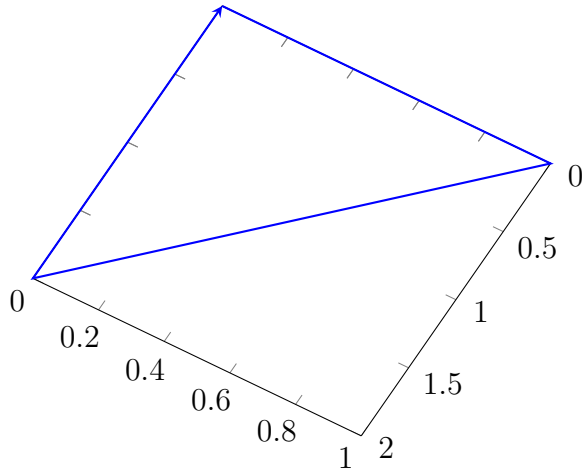
11.1.2.4  $\tilde{f}_{\text{Aijr}} \{-30\}\{80\}$ :



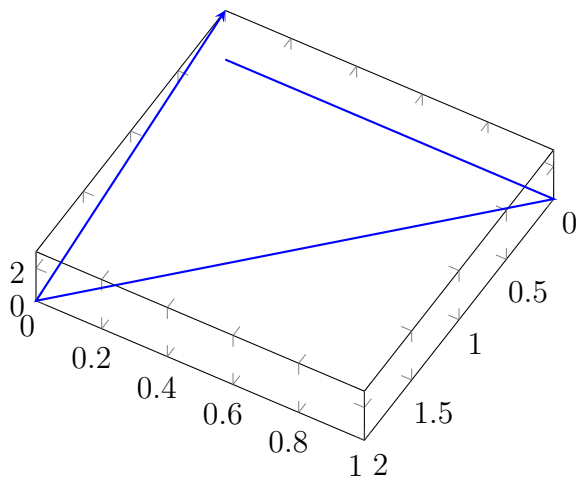
11.1.2.5  $\tilde{f}_{\text{Aijr}} \{-30\}\{90\}$ :



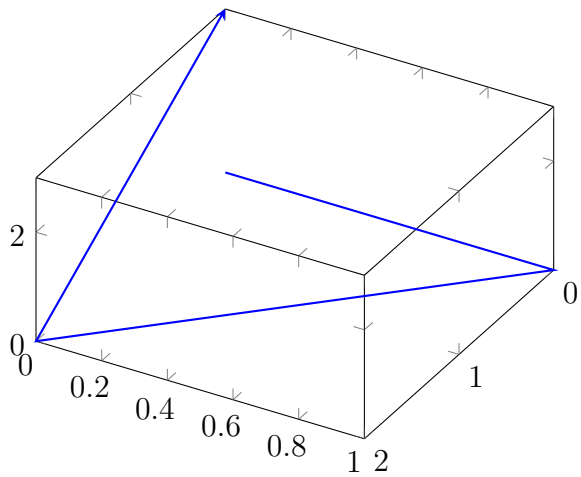
11.1.2.6  $f_{\tilde{A}ijr} \{-30\}\{-90\}$ :



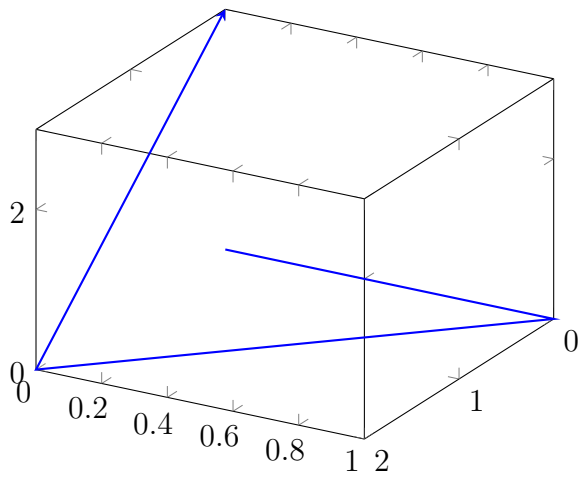
11.1.2.7  $f_{\tilde{A}ijr} \{-30\}\{-80\}$ :



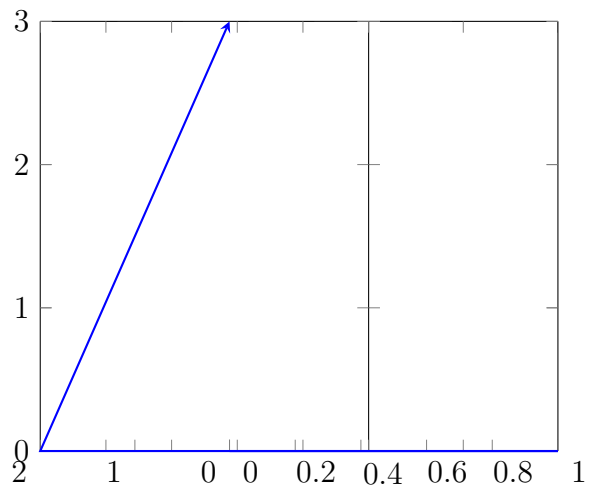
11.1.2.8 fÄijr {-30}{-50}:



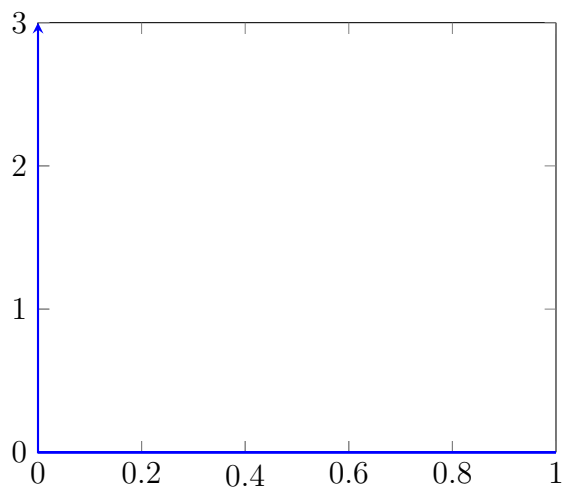
11.1.2.9 fÄijr {-30}{-30}:



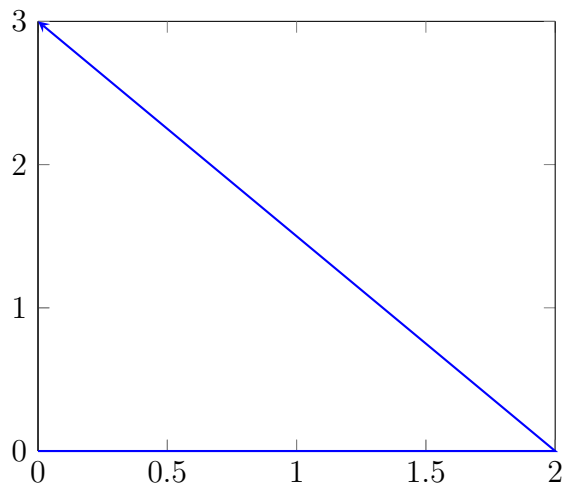
11.1.2.10  $f_{\tilde{A}ijr} \{-30\}\{0\}$ :



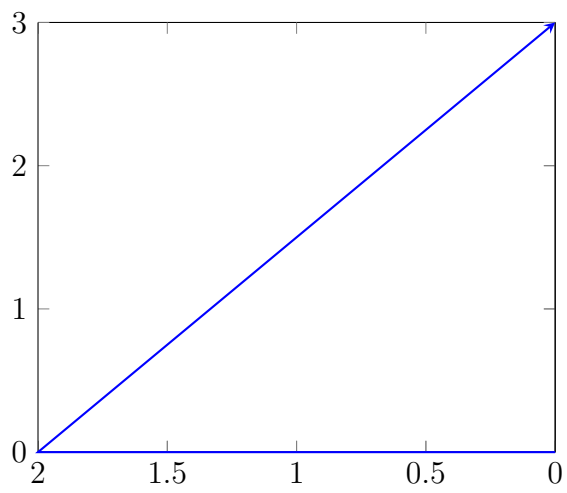
11.1.2.11 Special case view=0,0



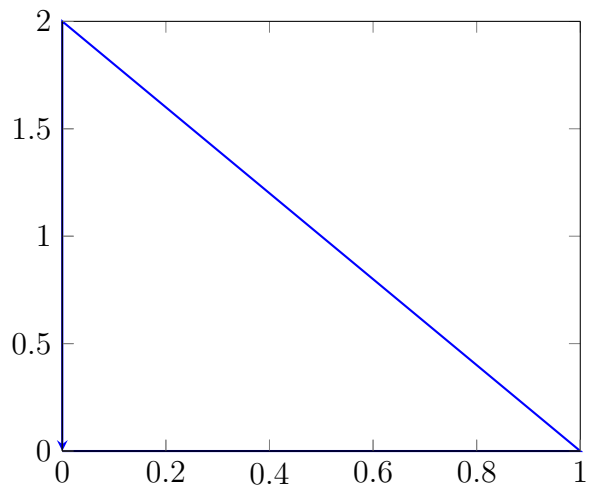
## 11.1.2.12 Special case view=90,0



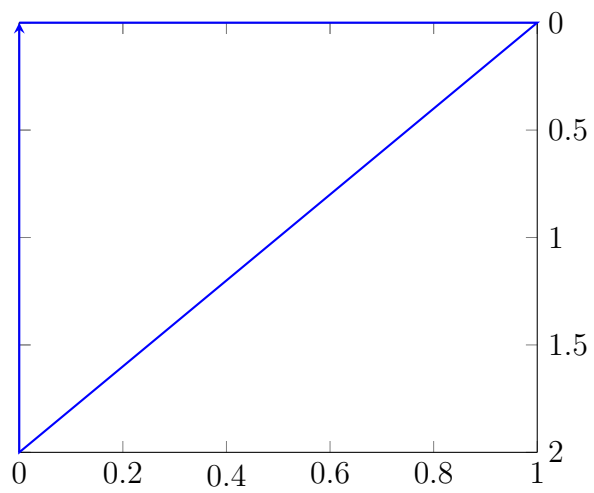
## 11.1.2.13 Special case view=-90,0



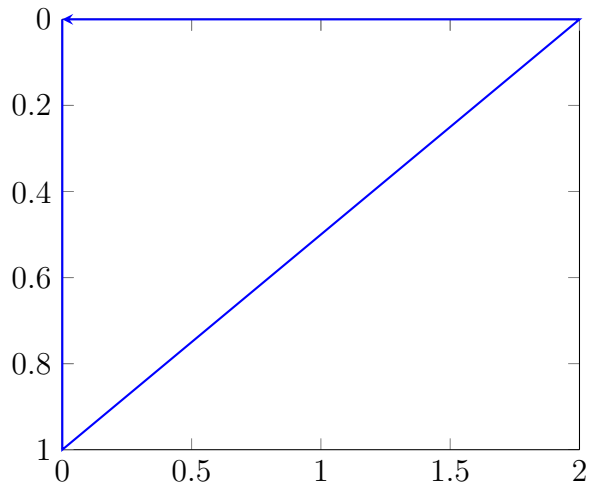
## 11.1.2.14 Special case view=0,90



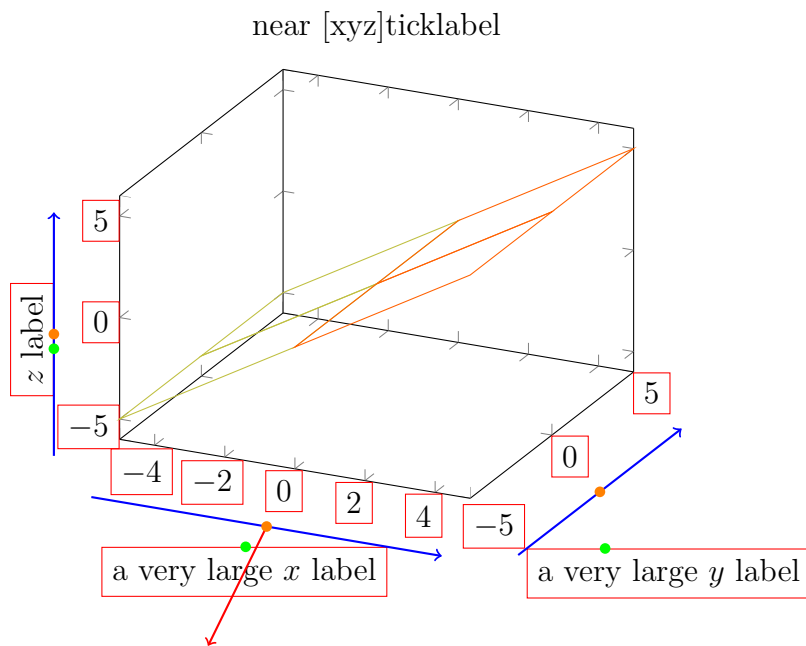
## 11.1.2.15 Special case view=0,-90

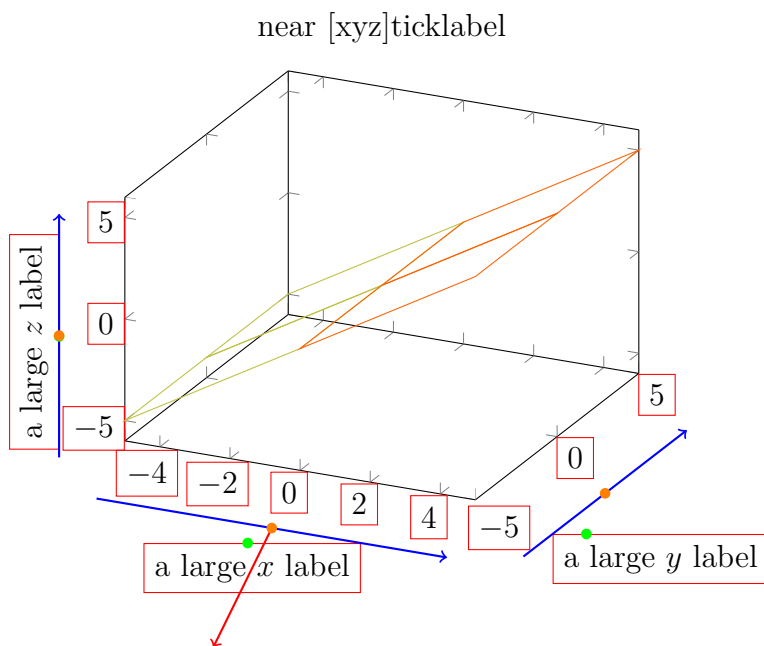
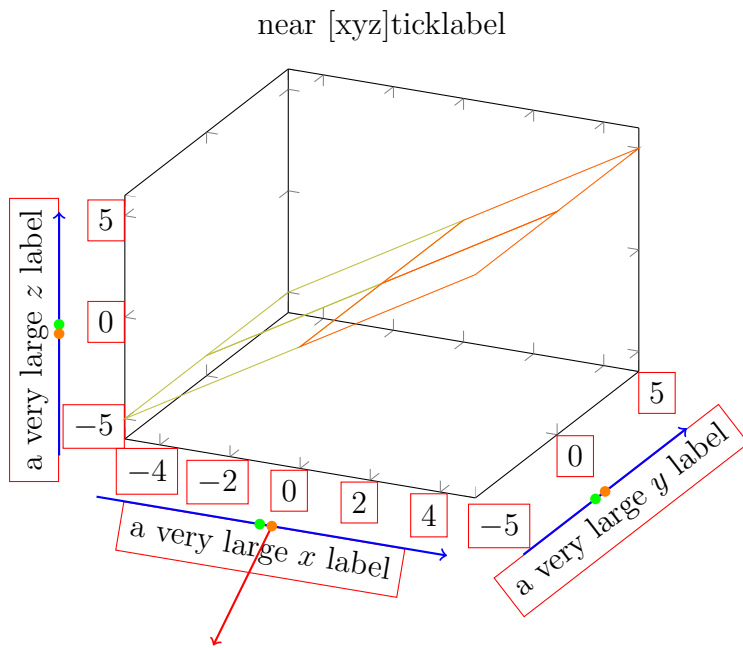


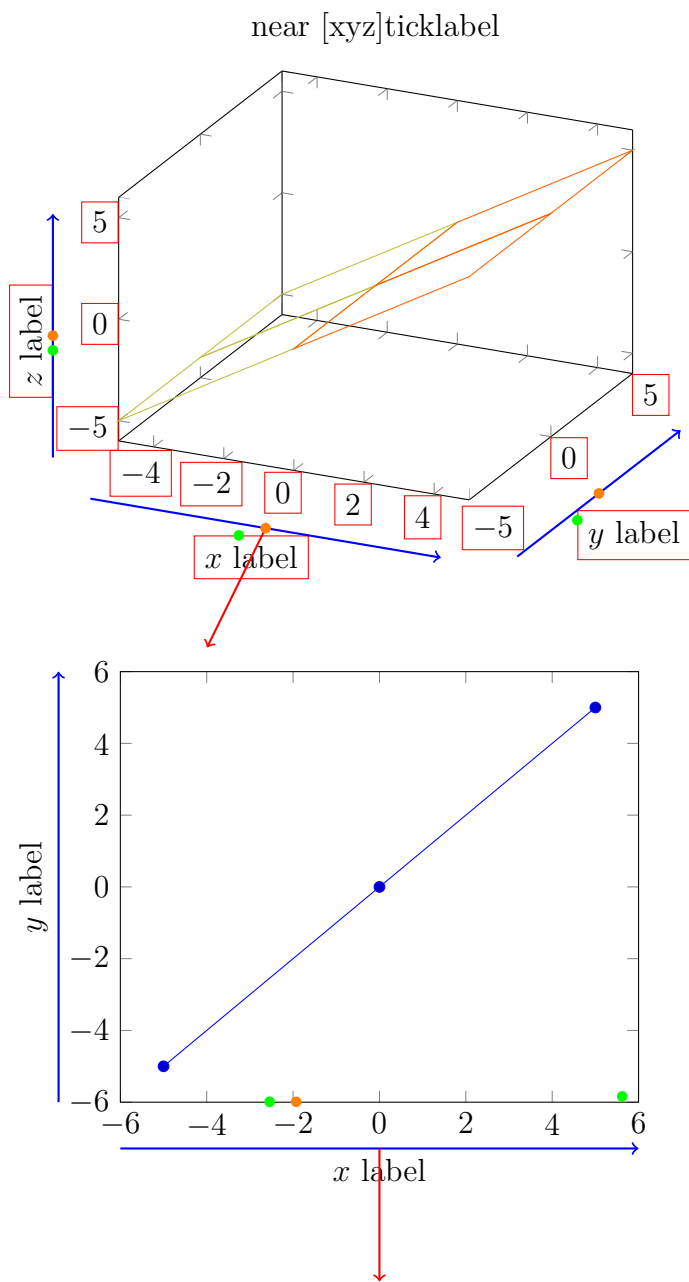
### 11.1.2.16 Special case view=90,90



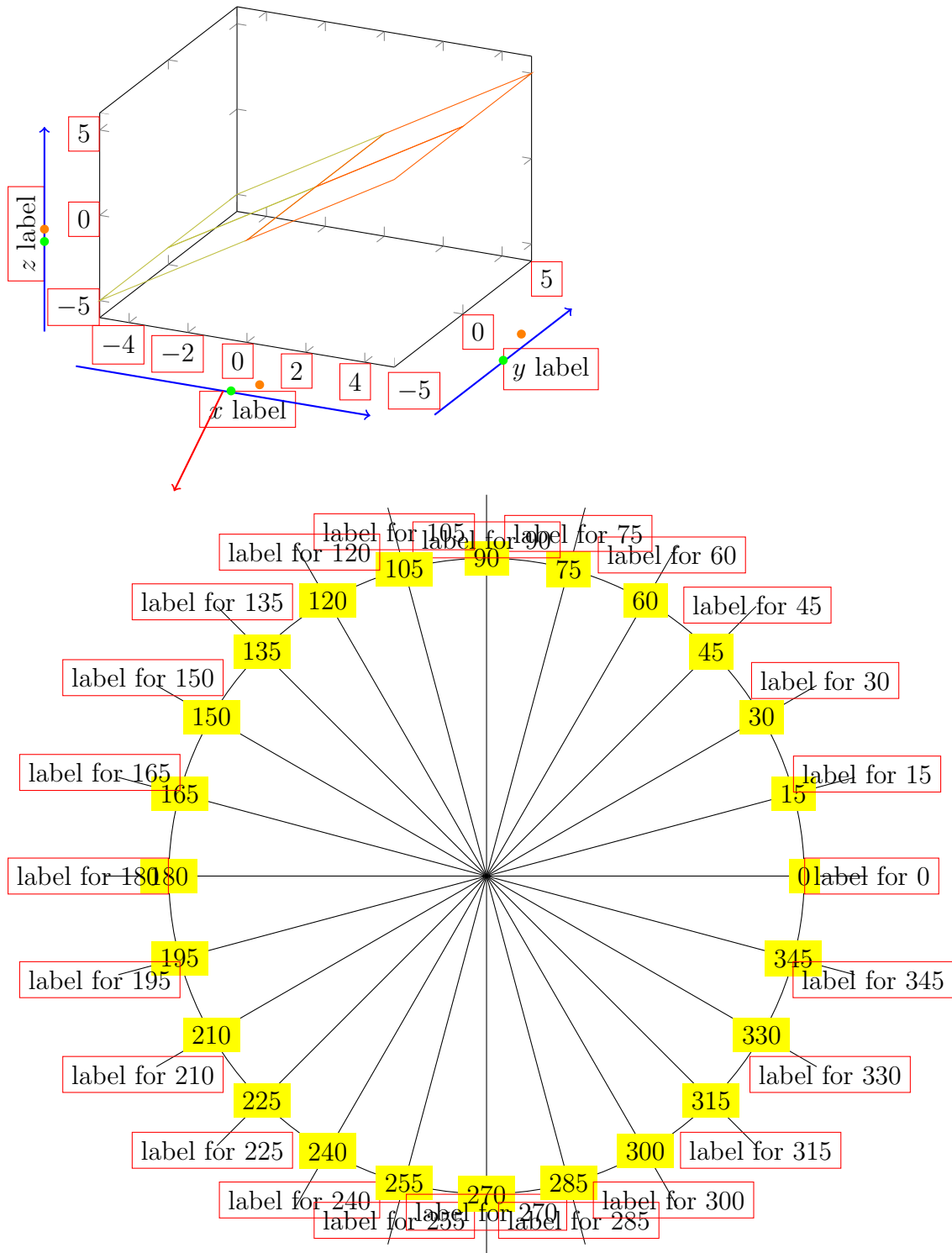
## 11.2 Tests and Debugging of near ticklabel anchors





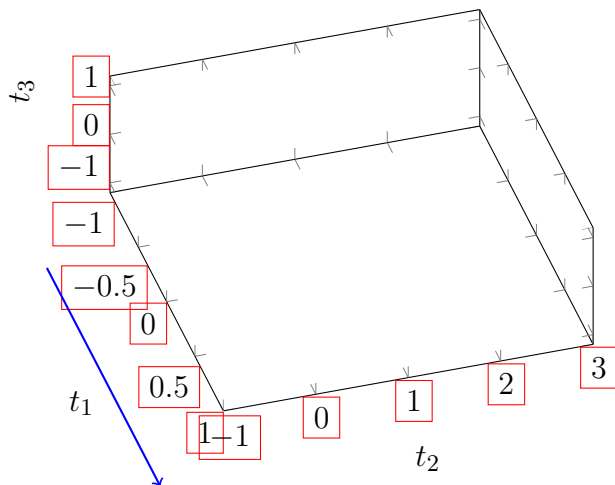
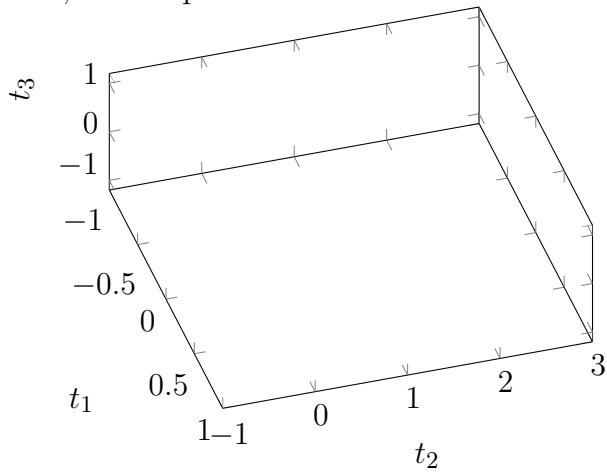


near [xyz]ticklabelSTAR

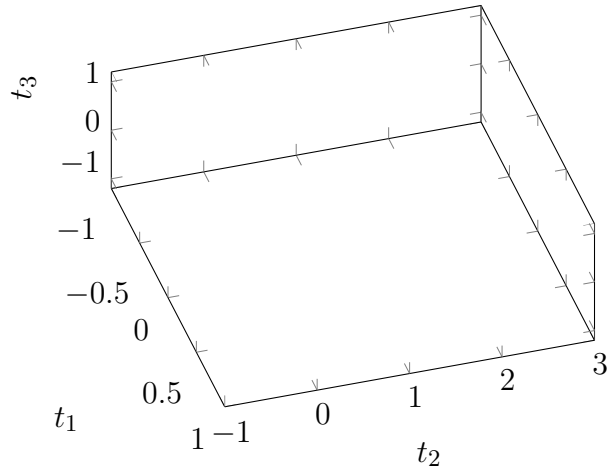


### 11.2.1 Placement of ticklabels

Here, a  $-0.5$  penetrated the axis in an earlier version, should be fixed now:

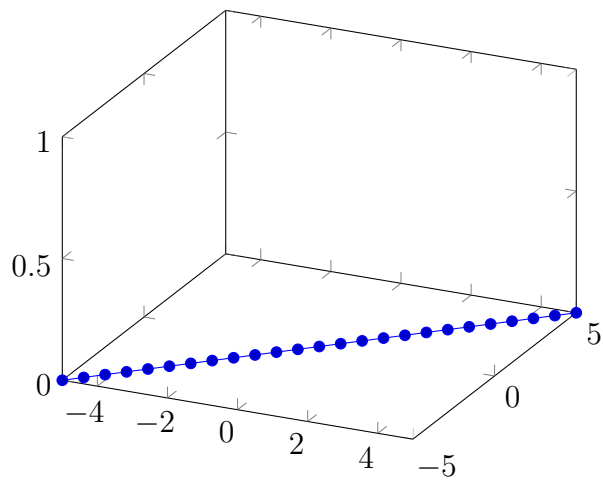


### 11.2.1.1 mit xticklabel shift=5pt

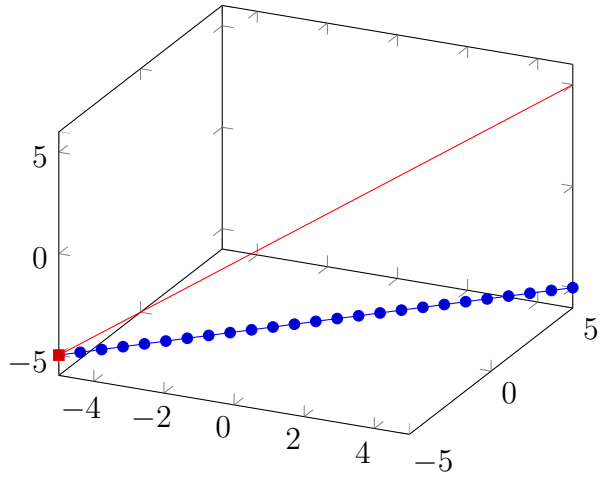


## 11.3 Sanity checking

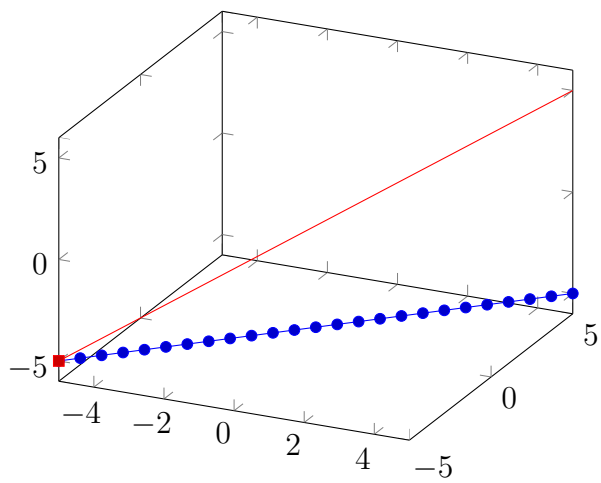
### 11.3.1 addplot in 3D axis



### 11.3.2 addplot and addplot3 in an axis



### 11.3.3 addplot and addplot3 in an axis



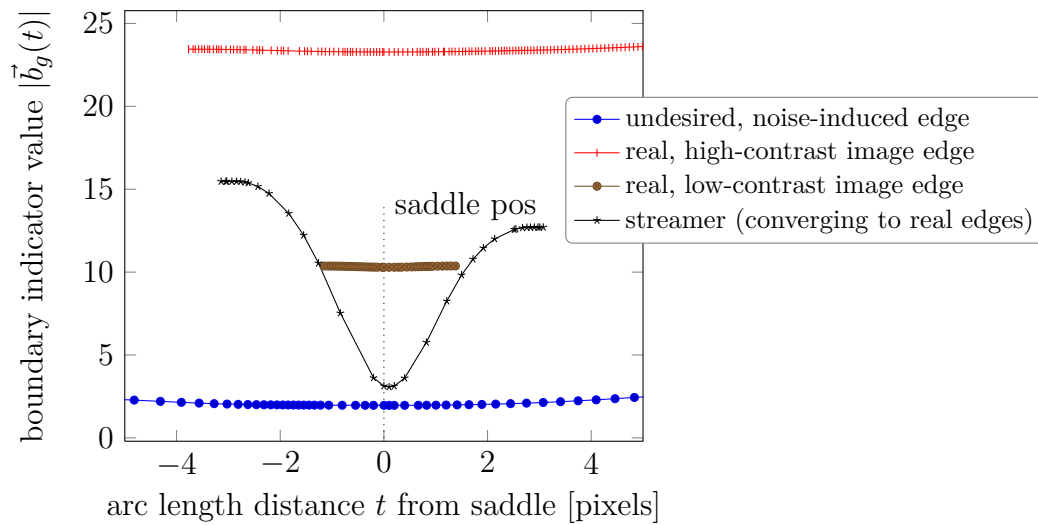
## 12 pgfplotstest.hansmeine\_app.tex

### 12.1 Application example of Hans Meine

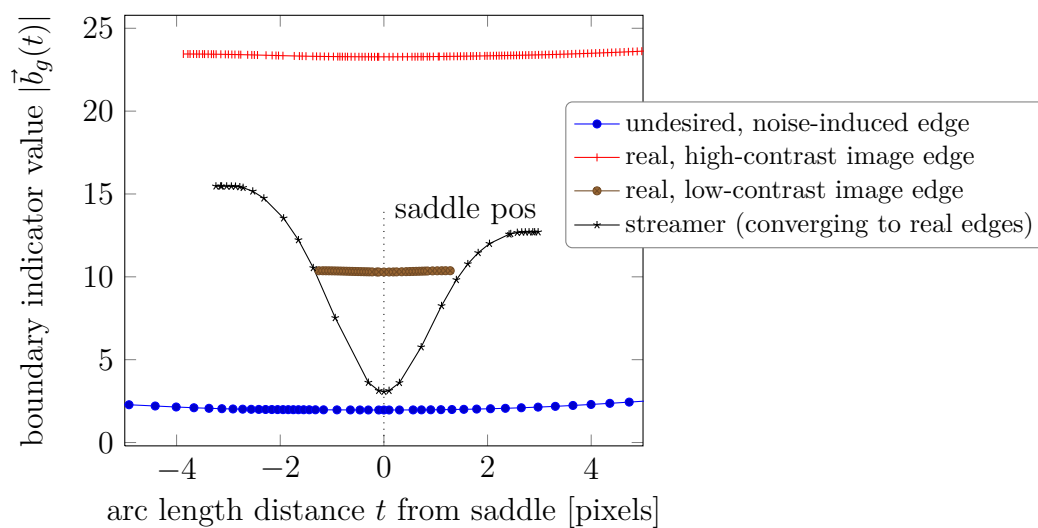
This example has been copied with permission from

<http://kogs-www.informatik.uni-hamburg.de/~meine/tikz/plots>.

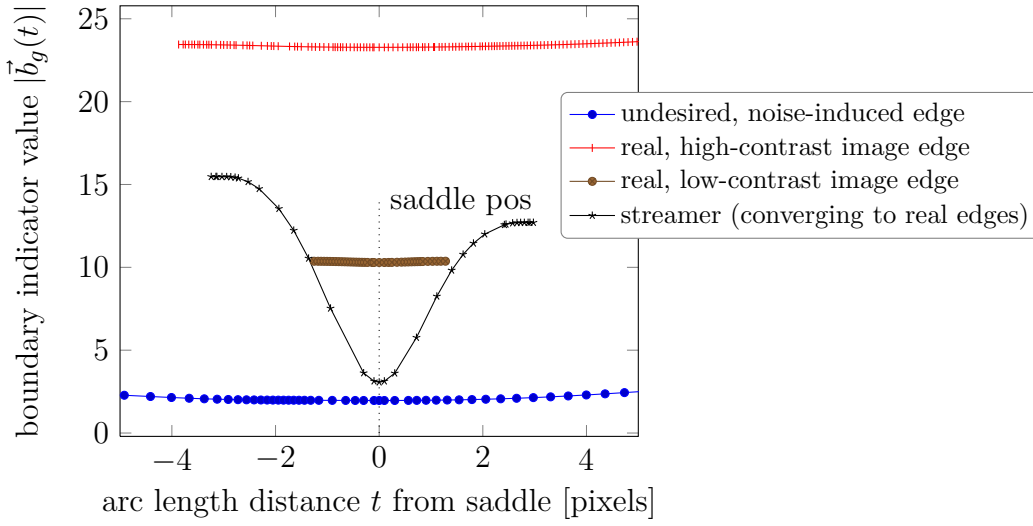
Please note that the first plot's input data as it is found in the url above is slightly shifted compared to the other plots.



#### 12.1.1 With plot file



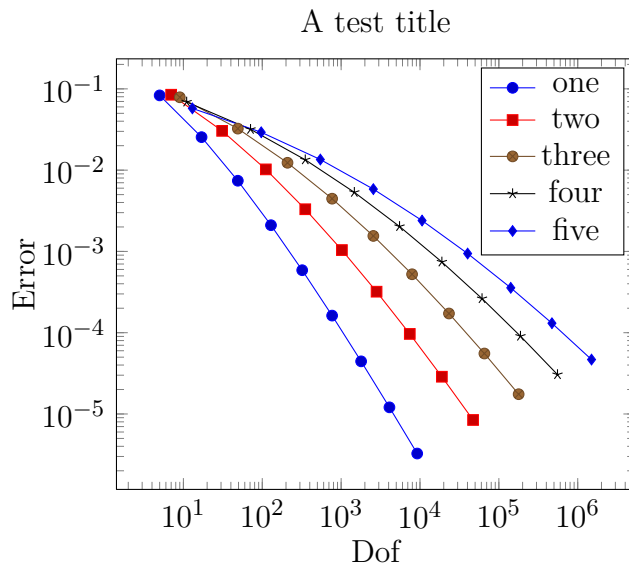
## 12.1.2 With plot file and restricted bounding box



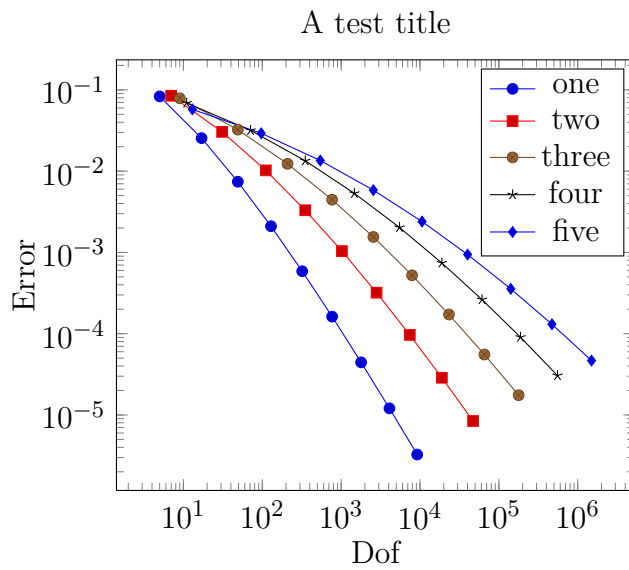
## 13 pgfplotstest.legend.tex

### 13.1 Legends

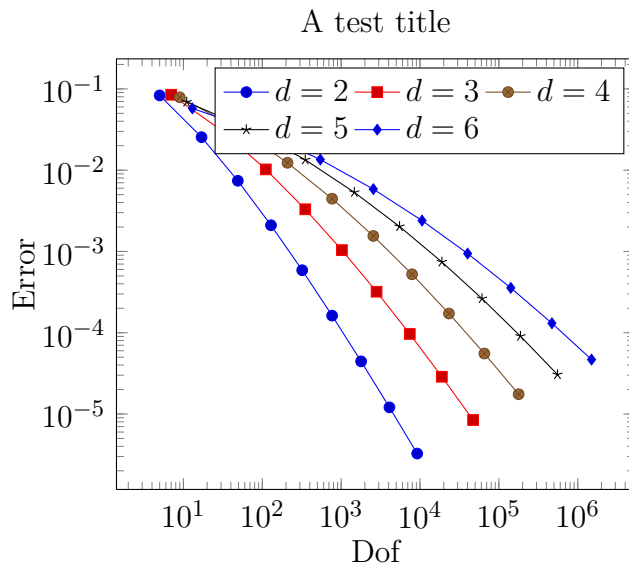
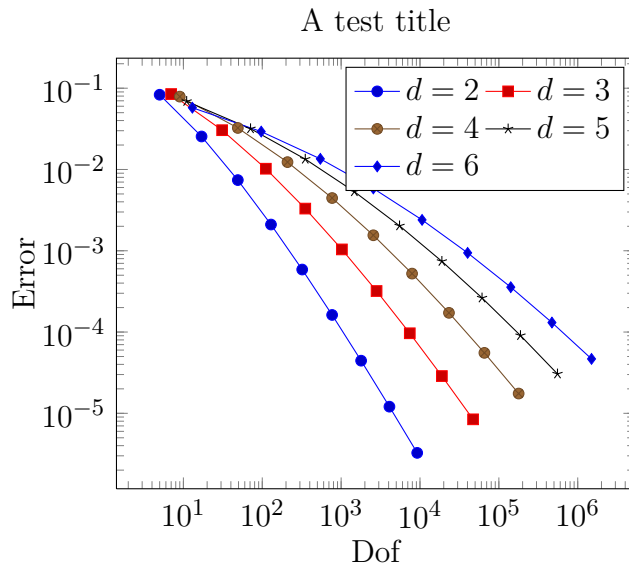
#### 13.1.1 Old-format legends with two backslashes as separator

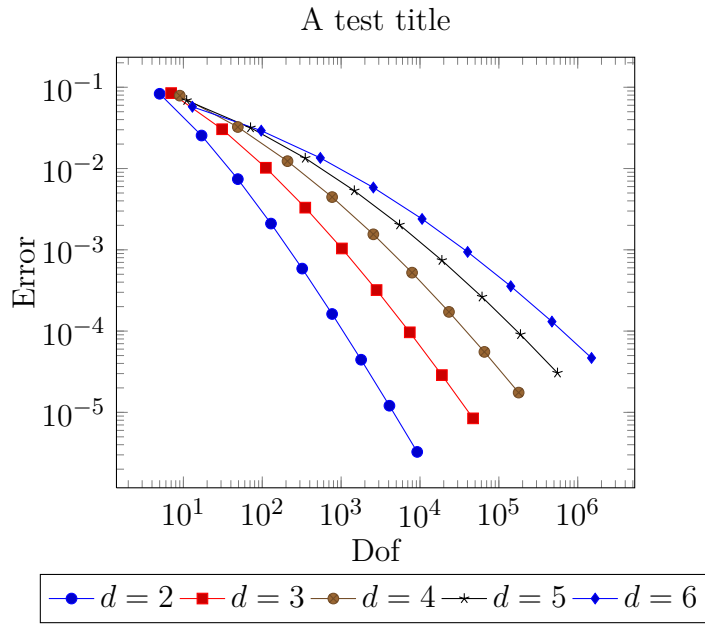
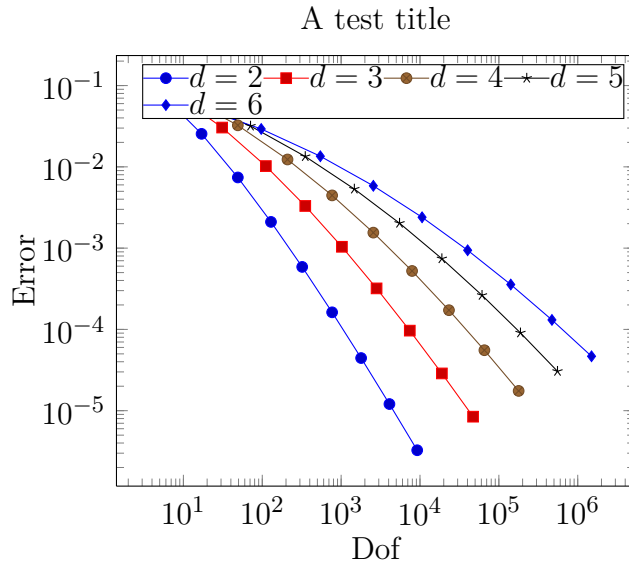


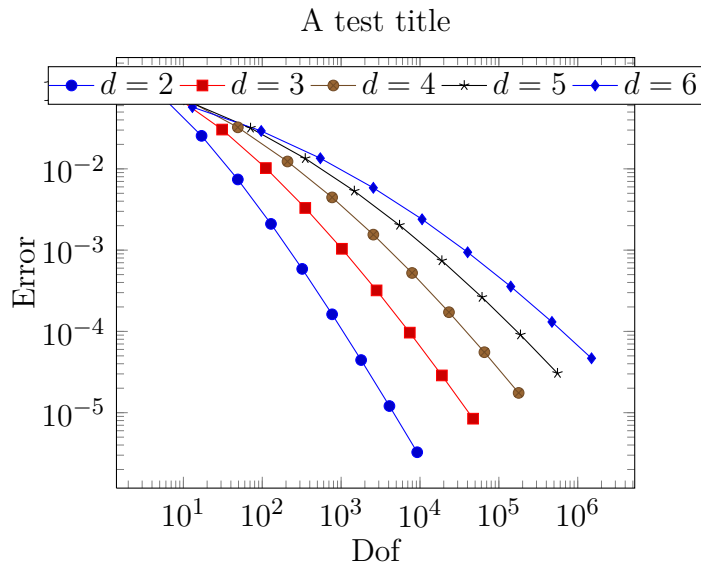
#### 13.1.2 Using comma-separated-legends



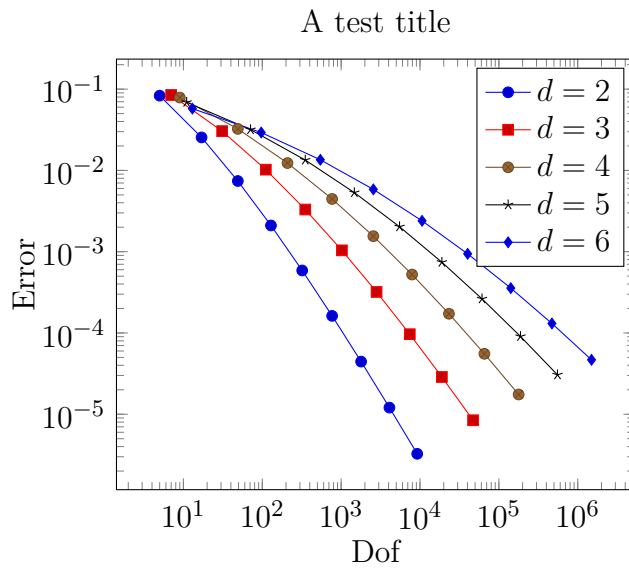
## 13.1.3 testing legend columns



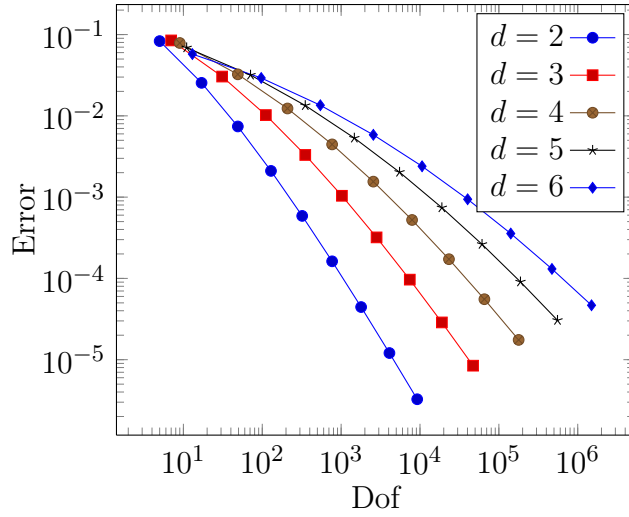




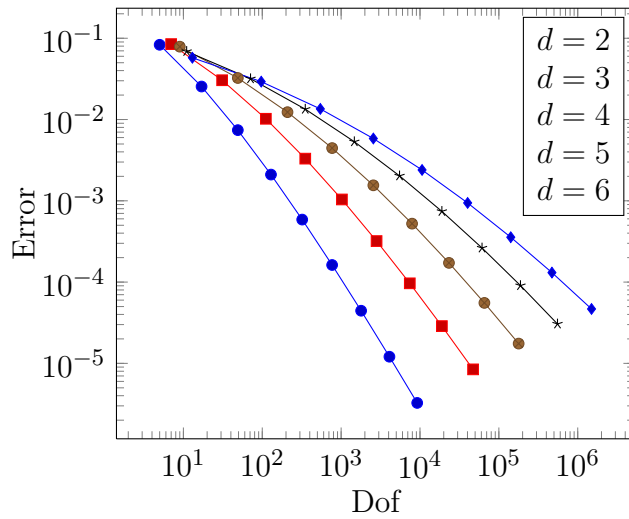
#### 13.1.4 “legend plot pos” options



A test title



A test title

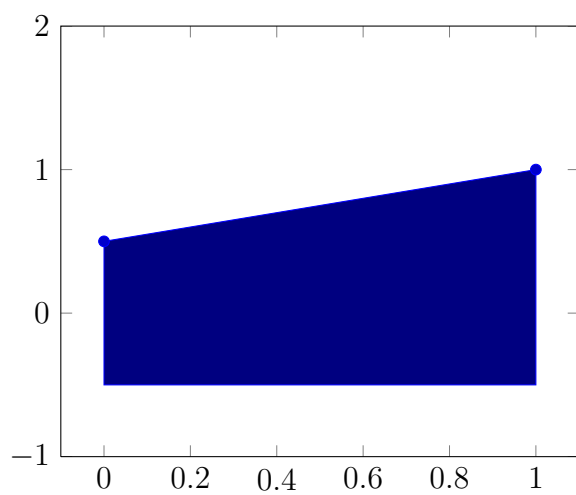


## 14 pgfplotstest.misc.tex

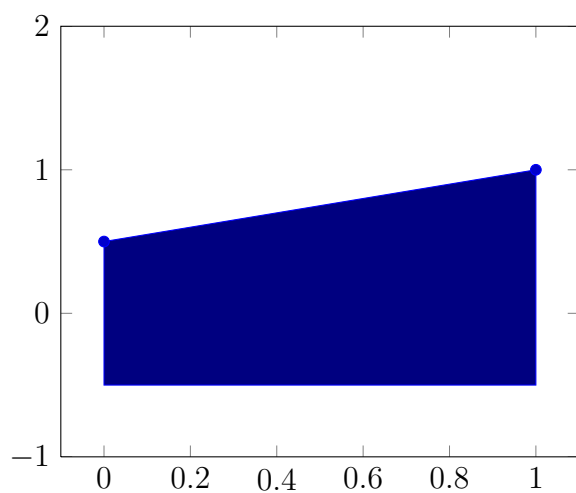
### 14.1 Paths after addplot

#### 14.1.1 plot coordinates

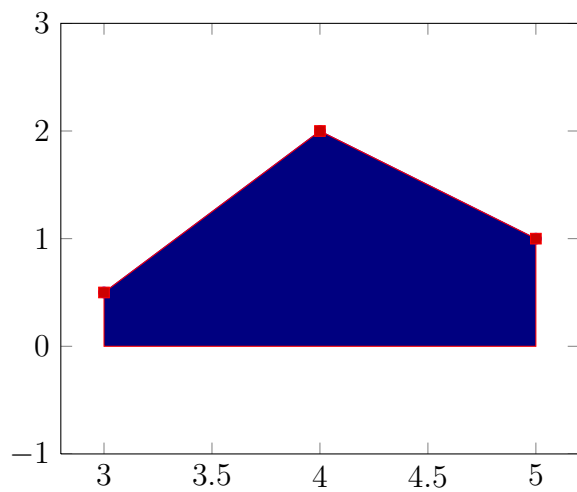
##### 14.1.1.1 without space after 'coordinates'



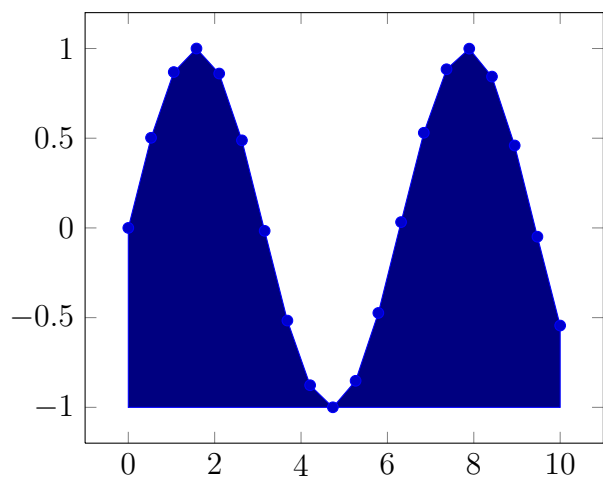
##### 14.1.1.2 with space after 'coordinates'



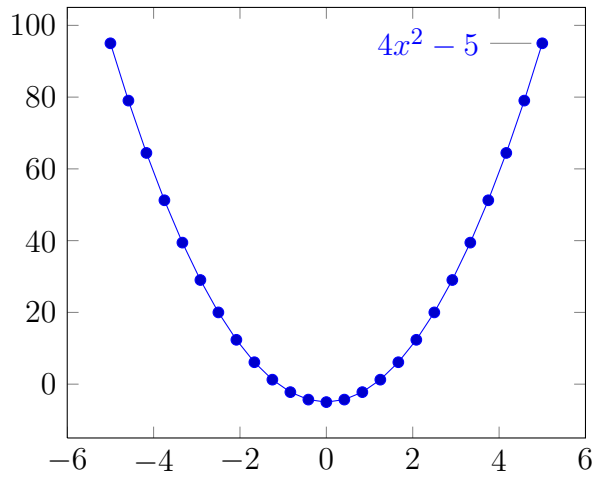
## 14.1.1.3 using closedcycle path



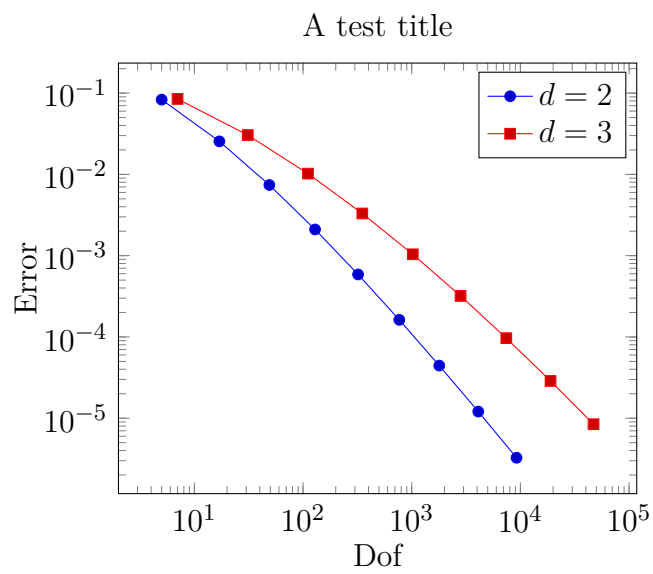
## 14.1.2 plot table



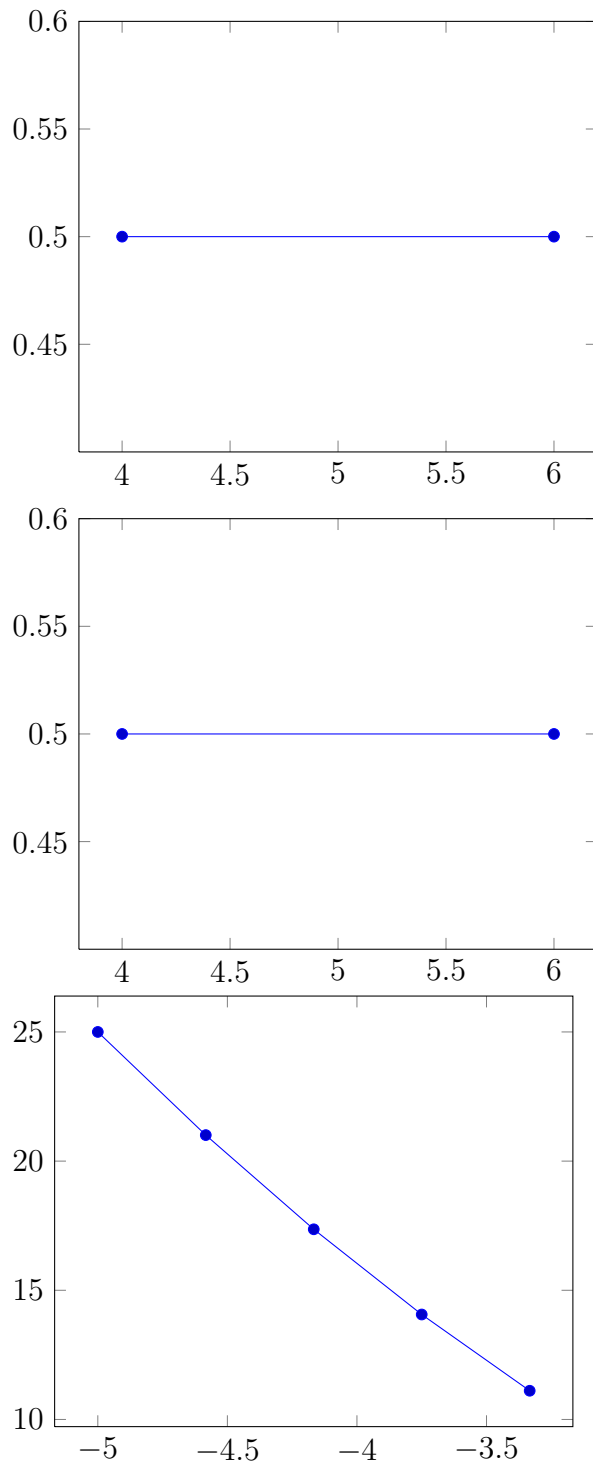
## 14.1.3 plot function



## 14.2 Title-option

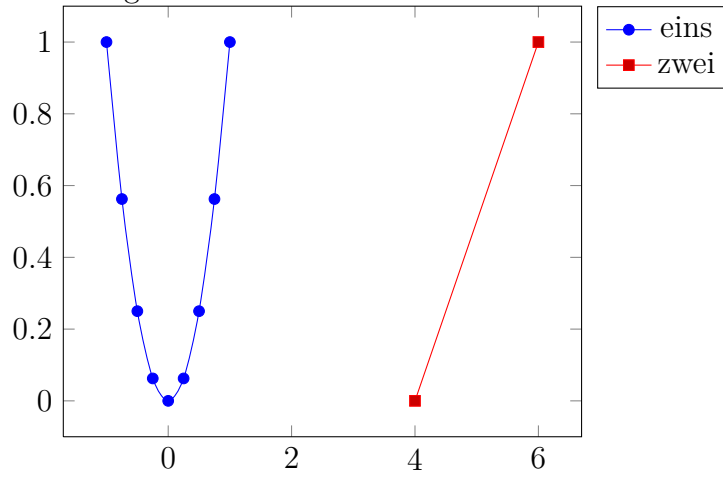


## 14.3 Filter test

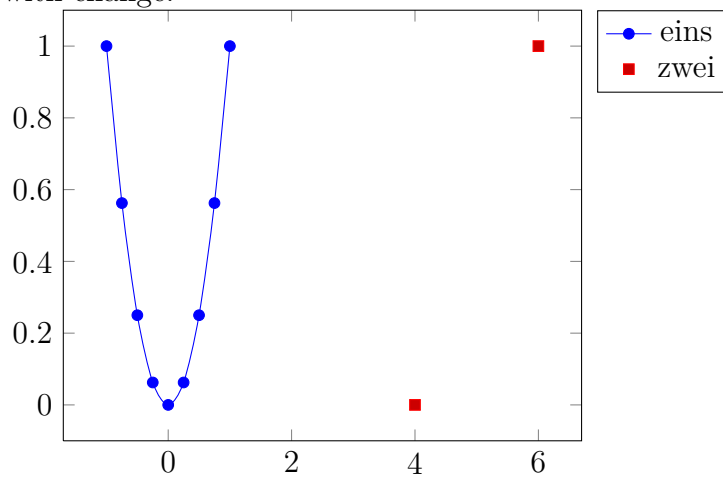


## 14.4 Test for addplot+[...]

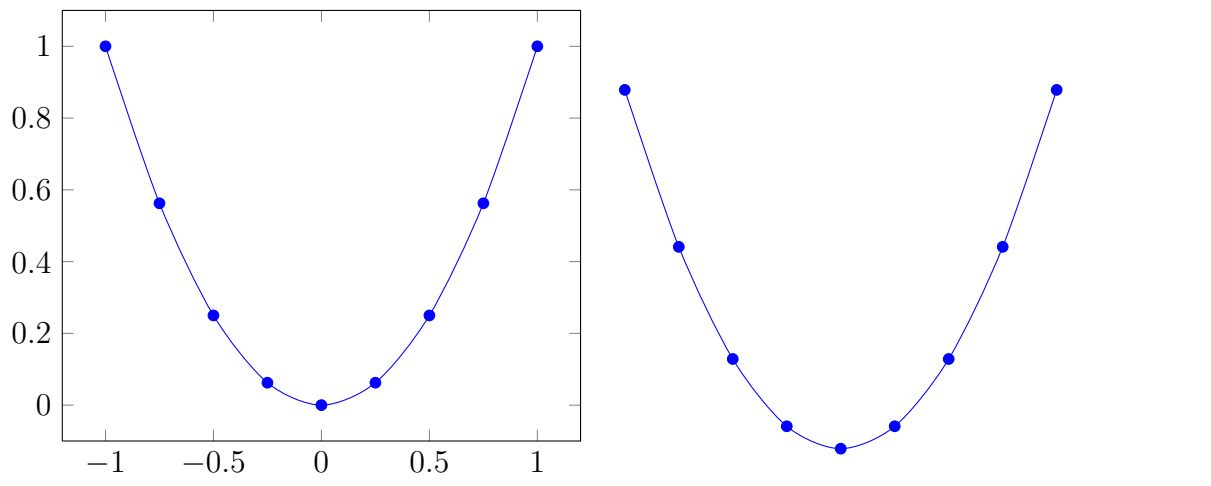
No Change:



with change:

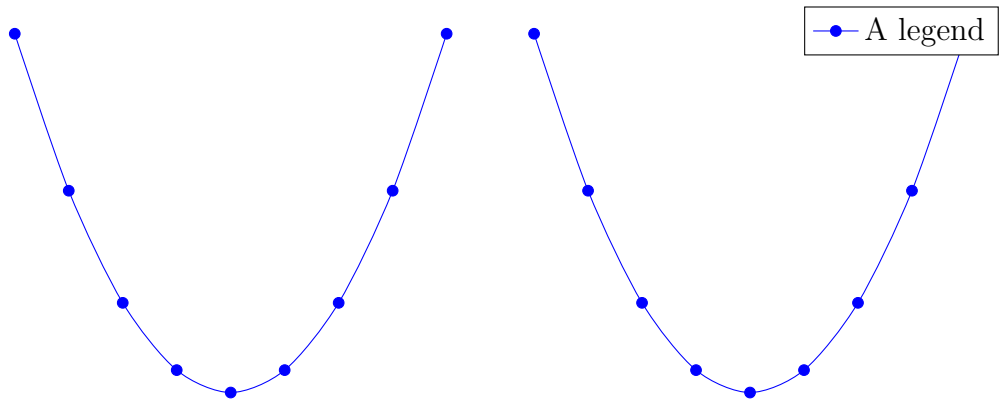


14.5 Hide axis test



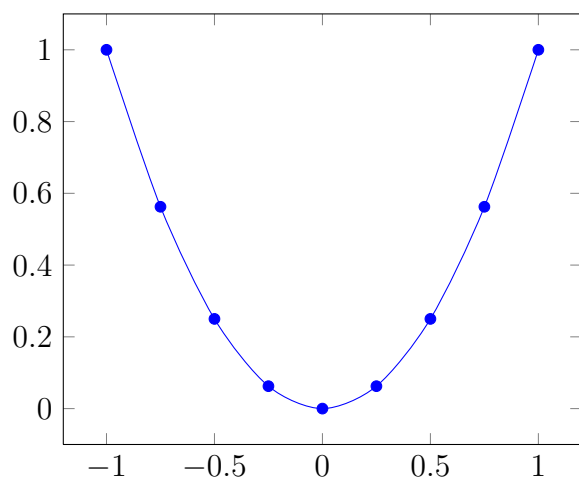
A plot with hidden axis

A plot with hidden axis

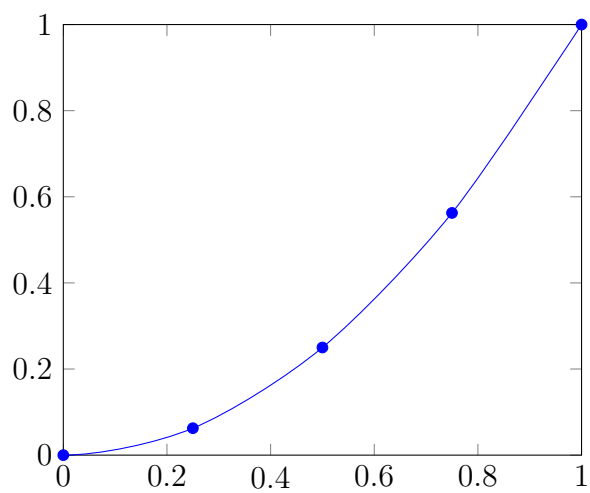


## 14.6 disabledatascaling / disablelogfilter

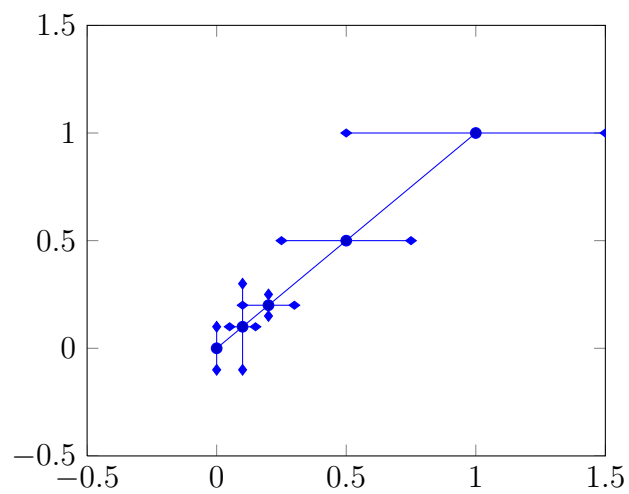
### 14.6.1 disabledatascaling



### 14.6.2 disabledatascaling + explicit limits



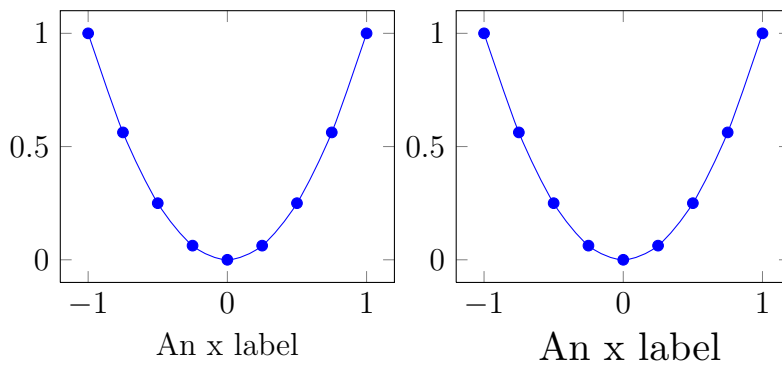
## 14.6.3 disabledatascaling + explicit limits + error bars



## 15 pgfplotstest.align.tex

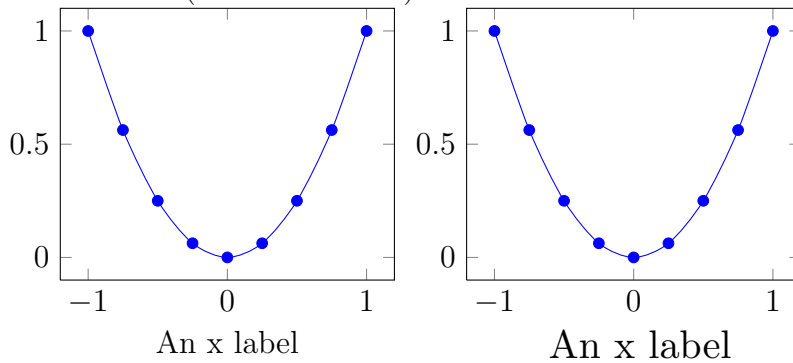
### 15.1 Anchors, alignment, baselines, sub nodes

#### 15.1.1 Baseline alignment

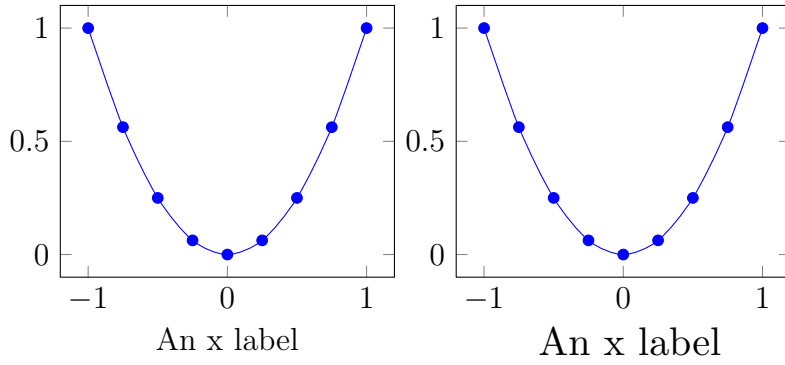


#### 15.1.2 Baseline alignment and externalized graphics

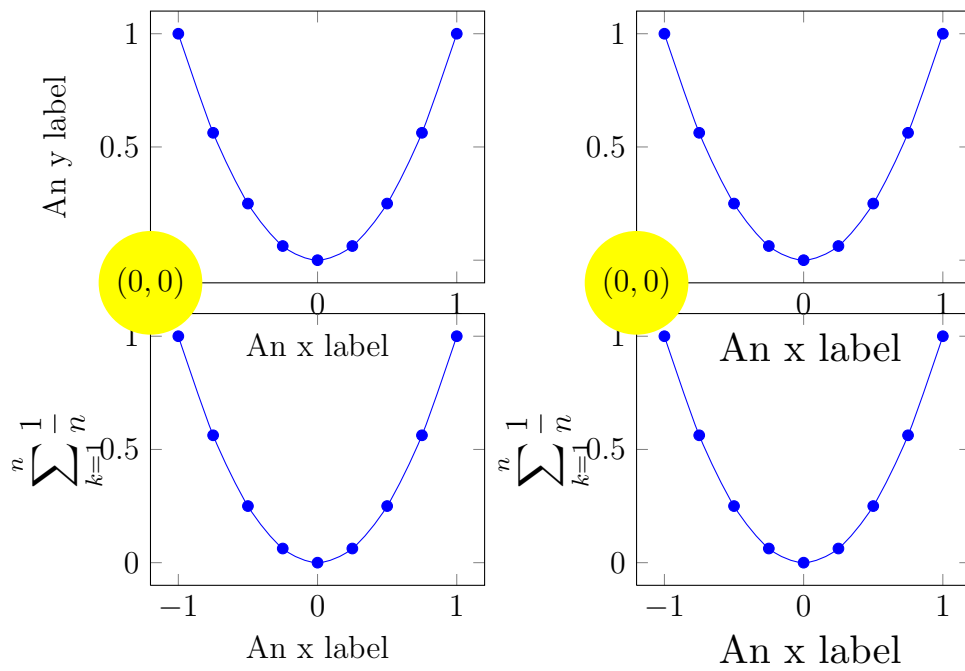
One needs `\beginpgfgraphicnamed` around the complete paragraph, so this here doesn't work (see source code):



## 15.1.3 Baseline alignment and externalized graphics II

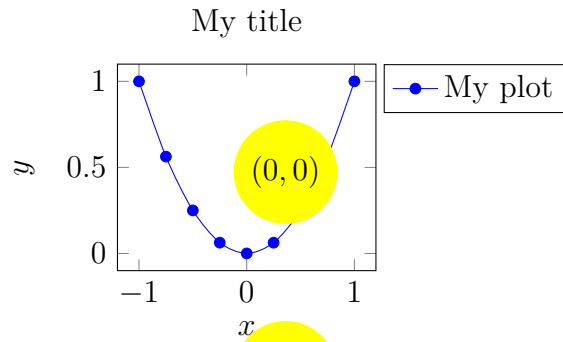


## 15.1.4 Horizontal and Vertical alignment

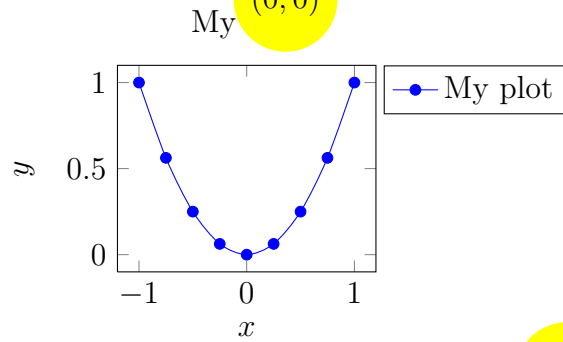


## 15.1.5 Anchortest

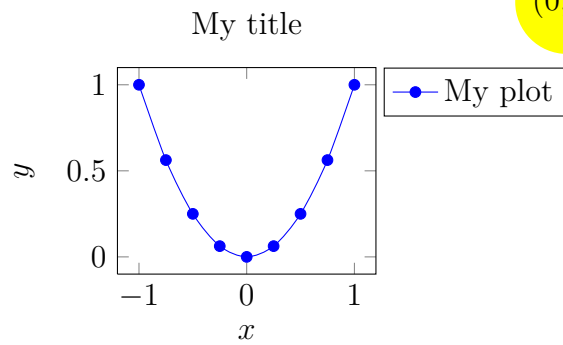
outer center:



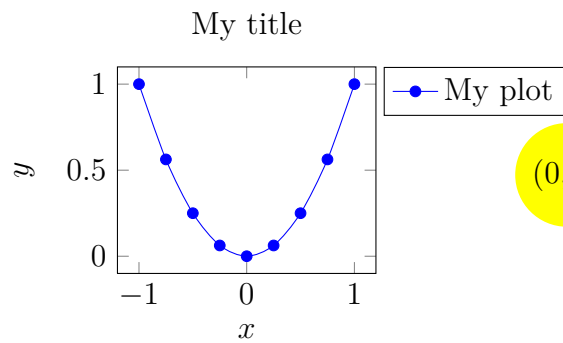
outer north:



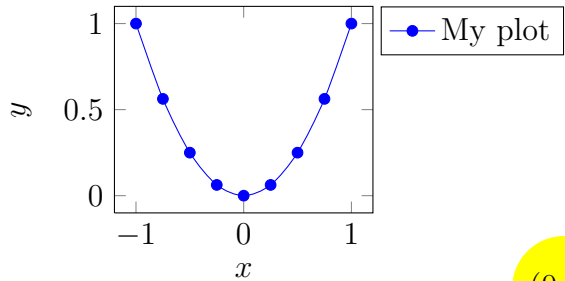
outer north east:



outer east:

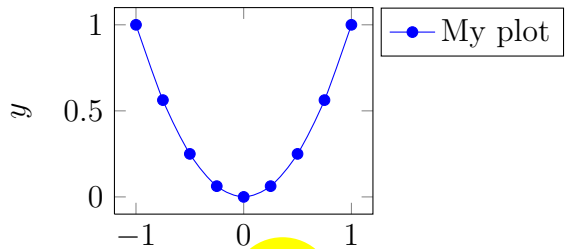


outer south east:  
My title



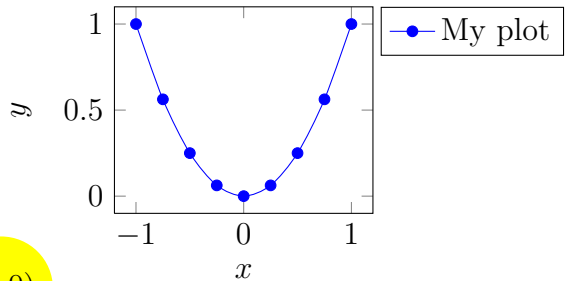
(0, 0)

outer south:  
My title



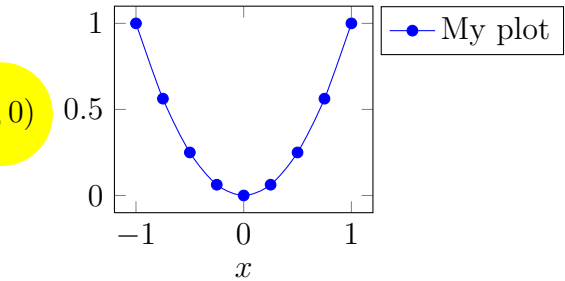
(0, 0)

outer south west:  
My title

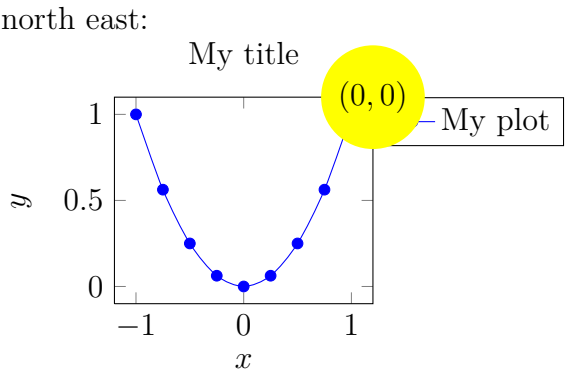
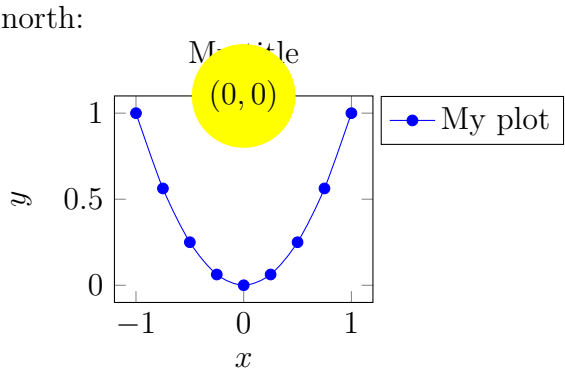
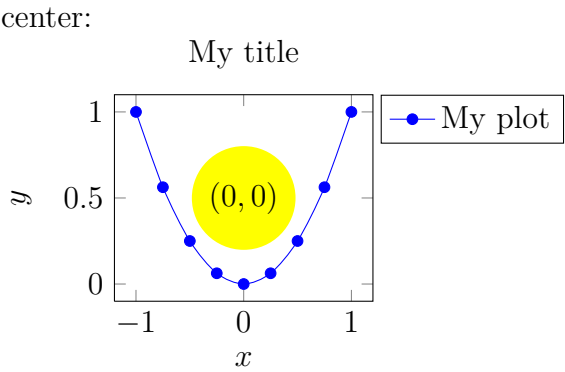
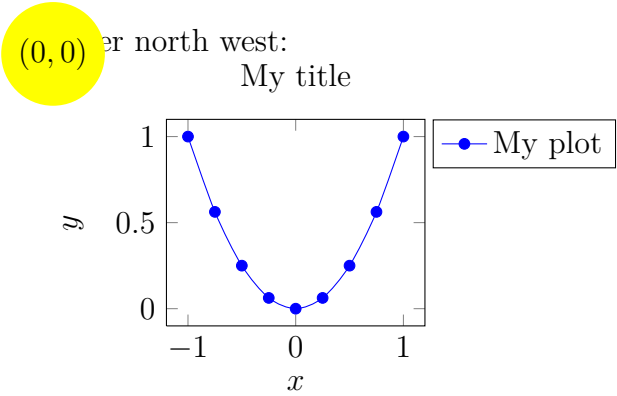


(0, 0)

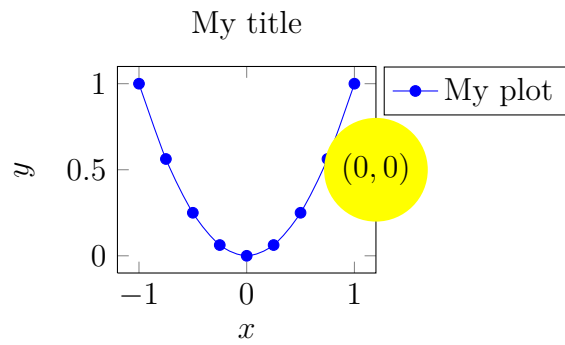
outer west:  
My title



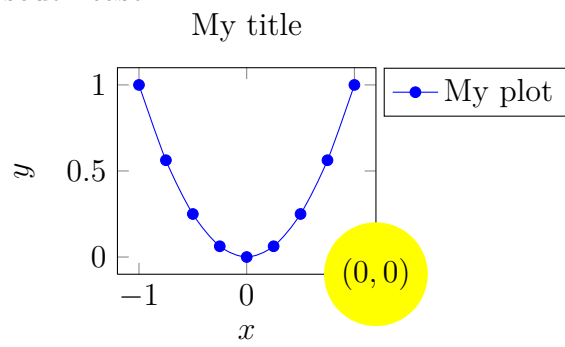
(0, 0)



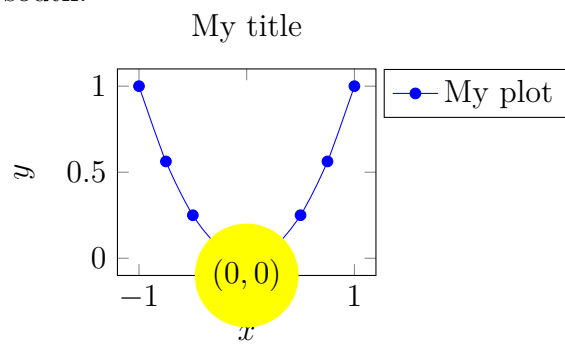
east:



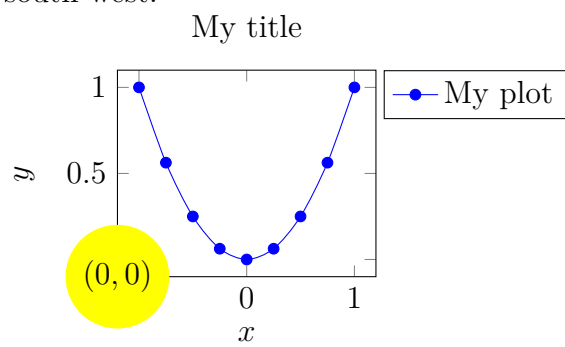
south east:



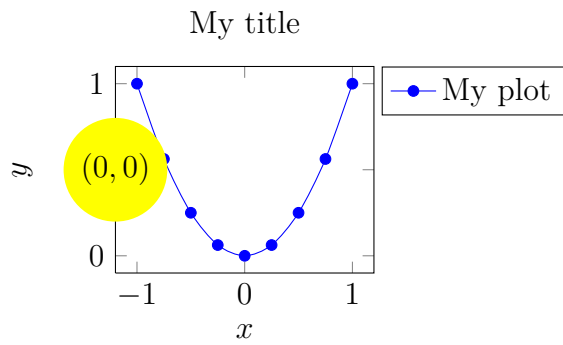
south:



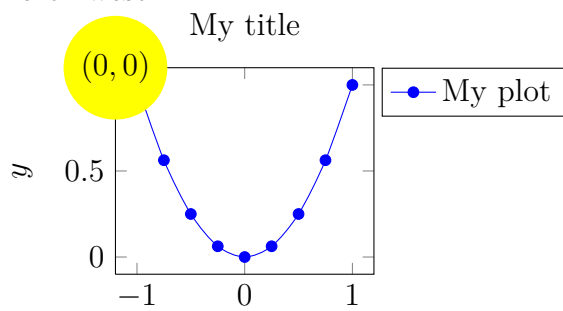
south west:



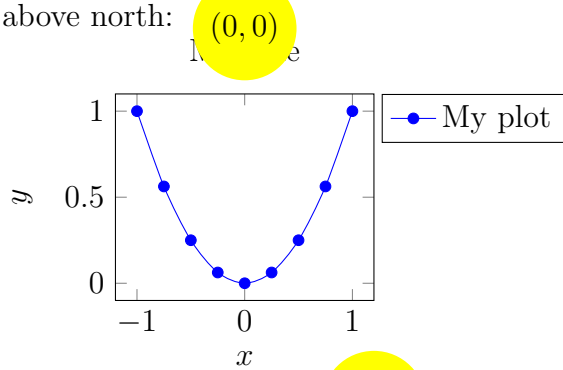
west:



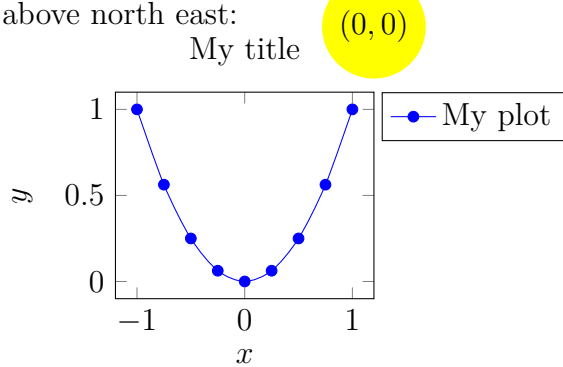
north west:



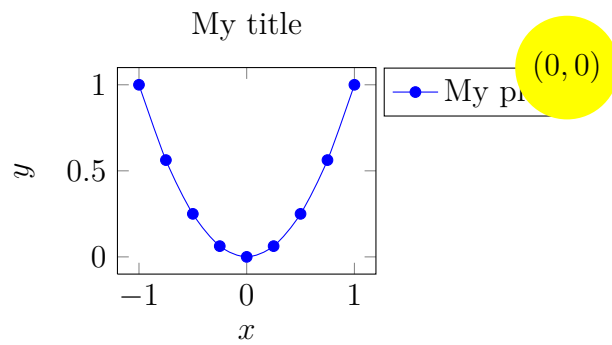
above north:



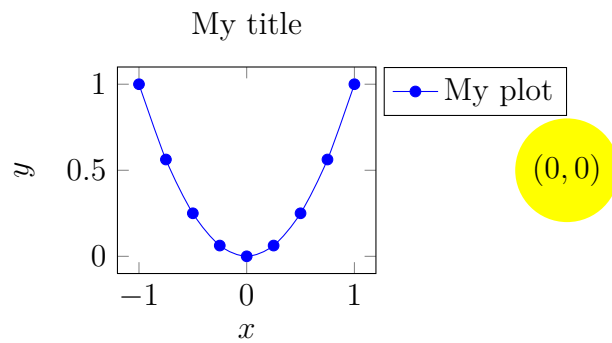
above north east:



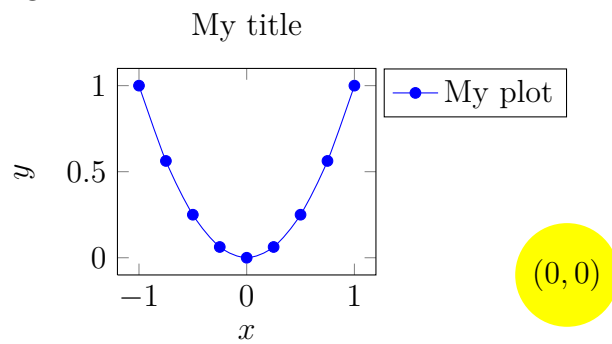
right of north east:



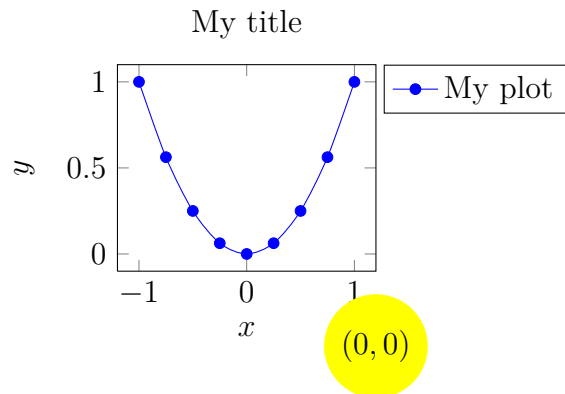
right of east:



right of south east:

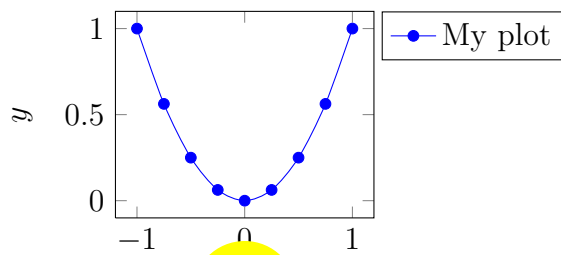


below south east:



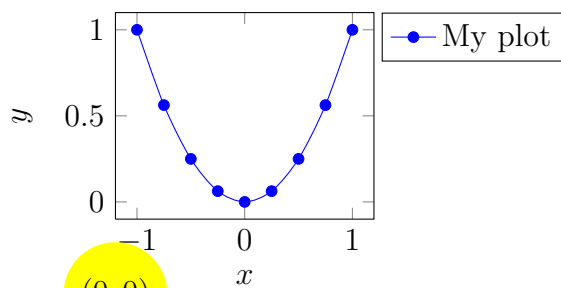
below south:

My title



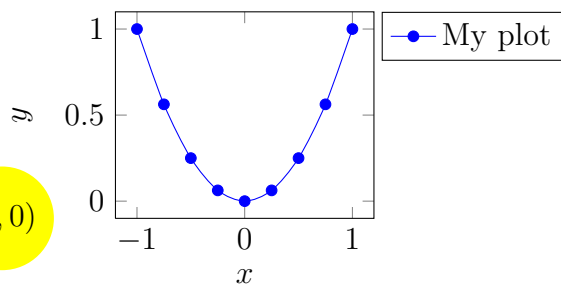
below south west:

My title



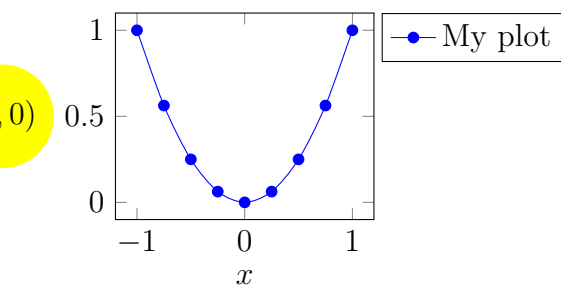
left of south west:

My title



left of west:

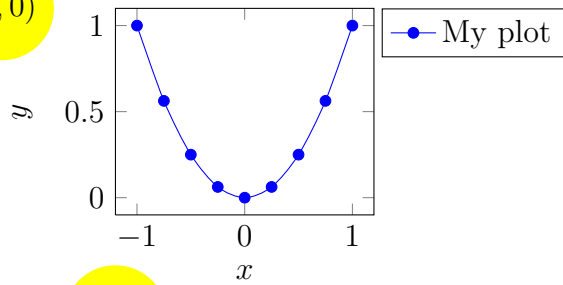
My title



left of north west:

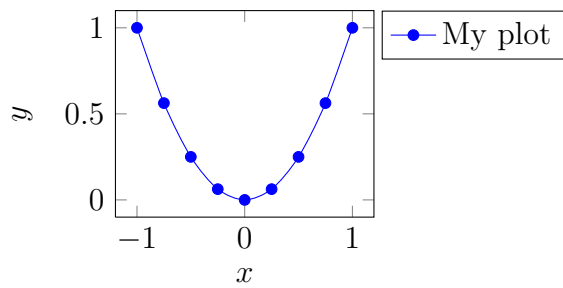
My title

(0,0)

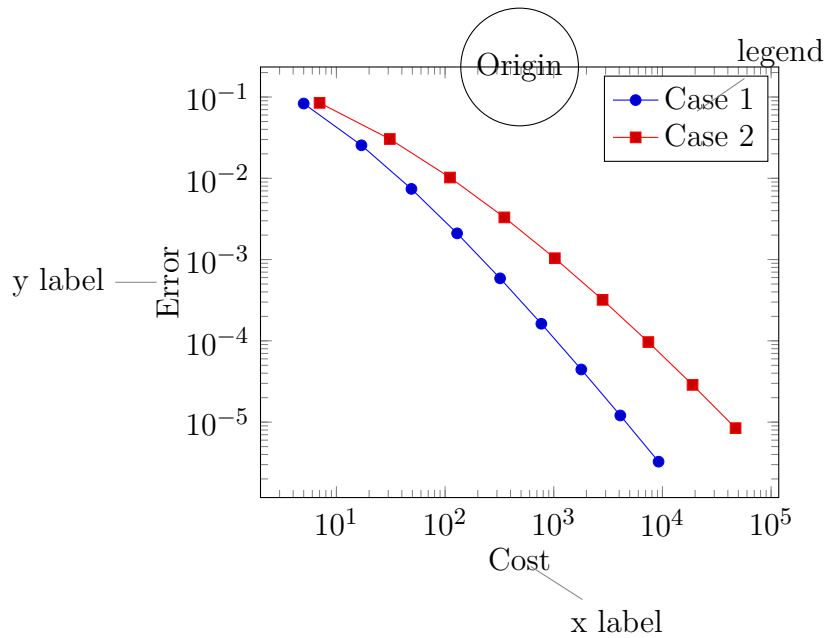


above (0,0) west:

My title

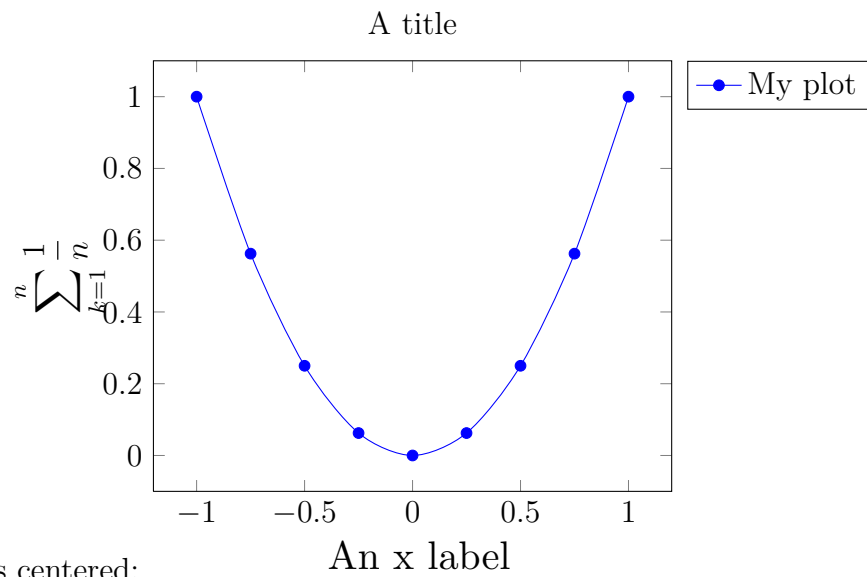


### 15.1.6 Accessing sub-nodes



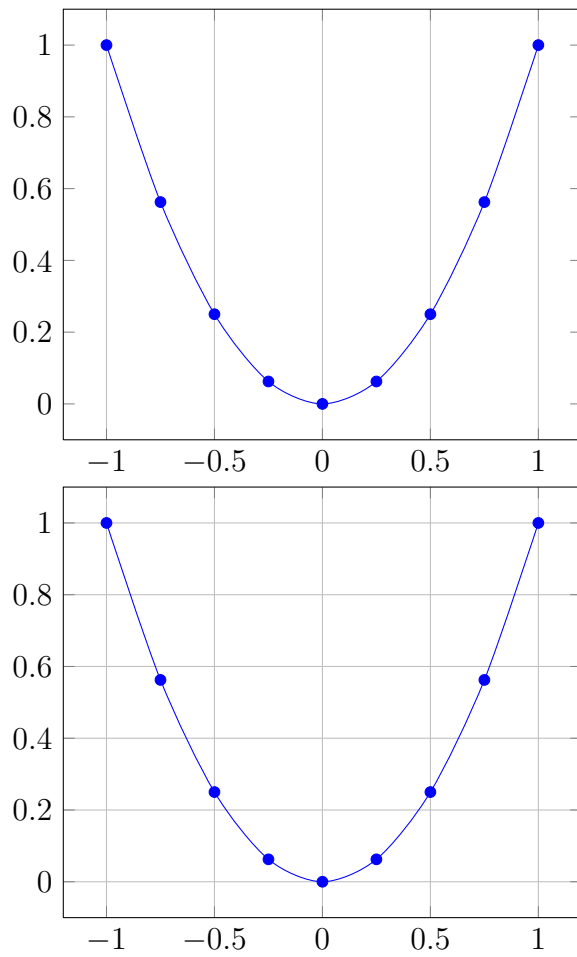
### 15.1.7 Funny bounding boxes

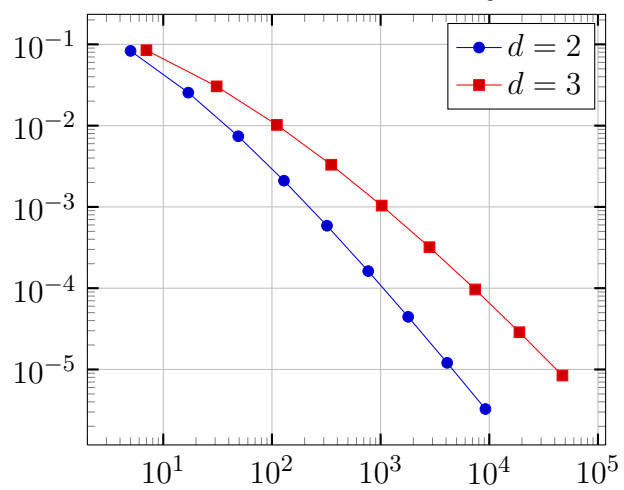
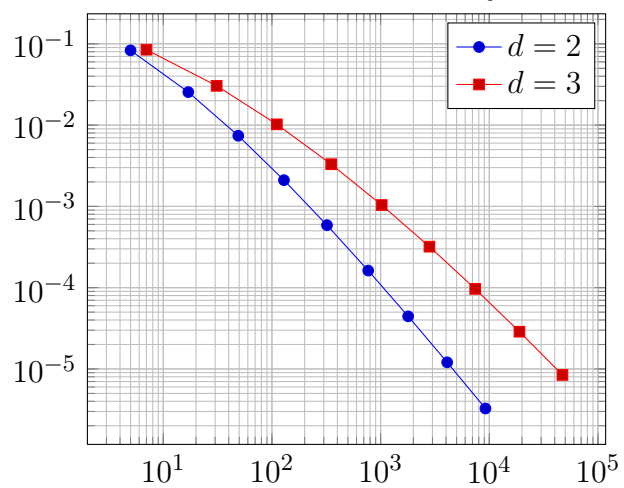
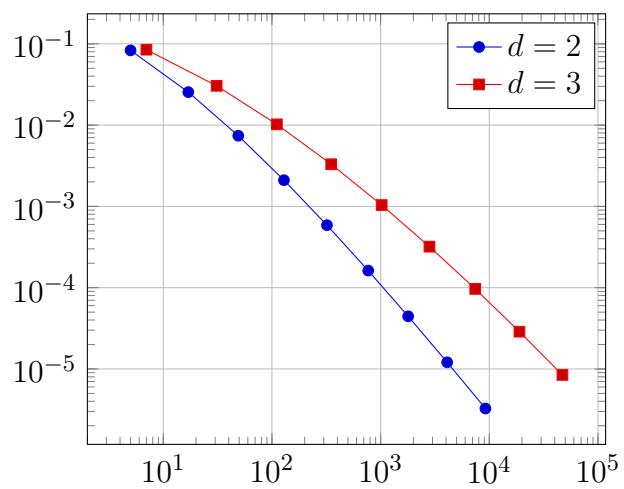
15.1.7.1 (my plot.below south west) rectangle (my plot.above north east)

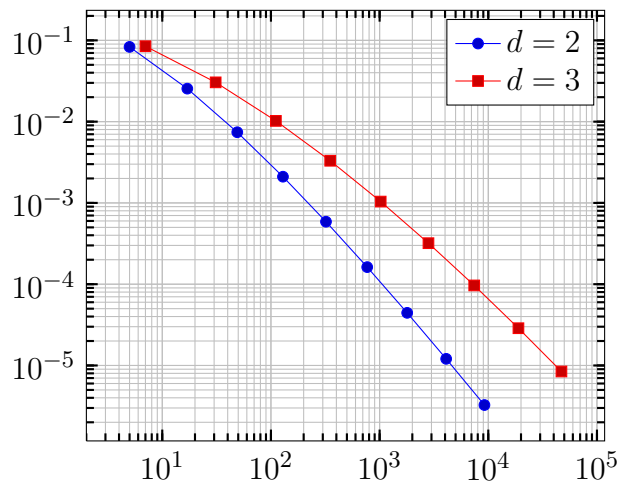


## 16 pgfplotstest.gridtick.tex

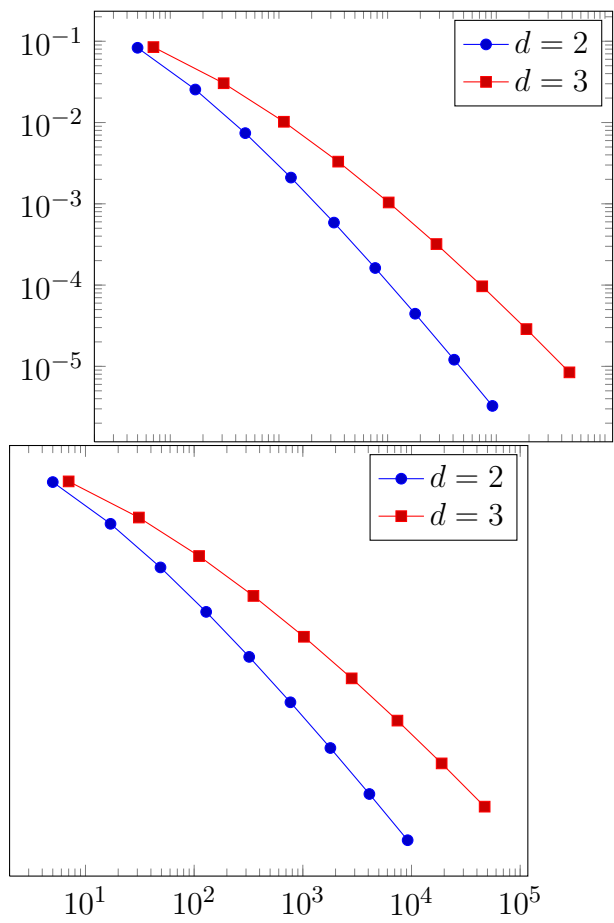
### 16.1 Grid lines test

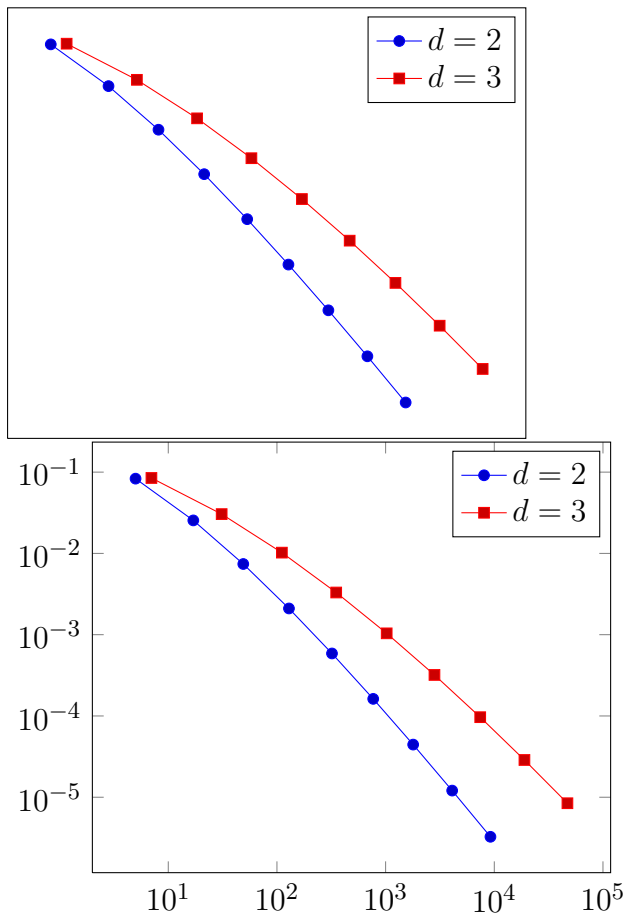




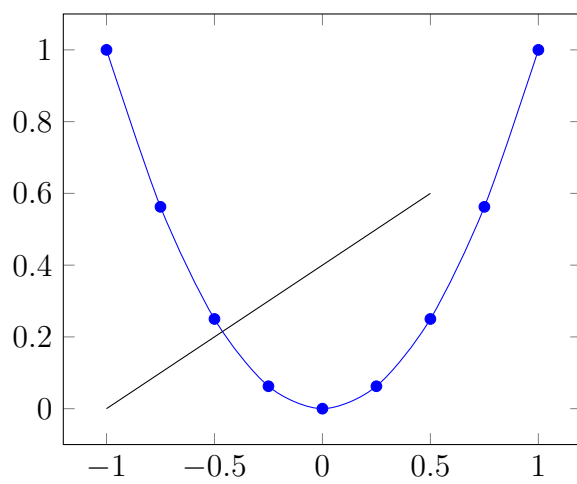


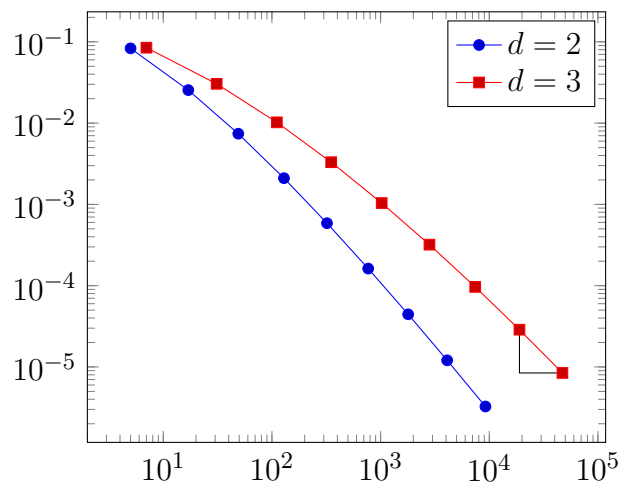
## 16.2 Tick lines test





### 16.3 TikZ-coordinate system “axis”

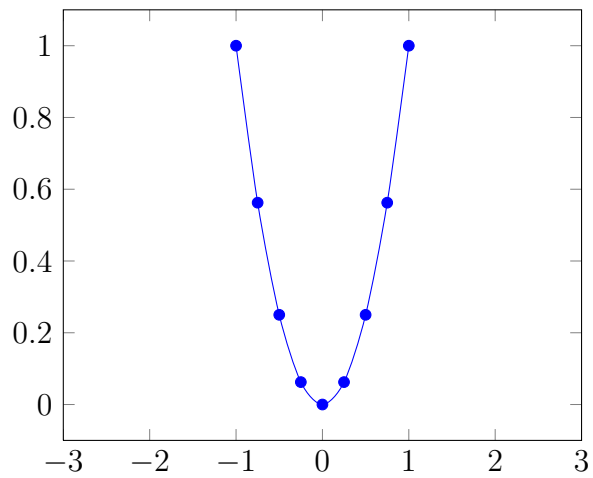




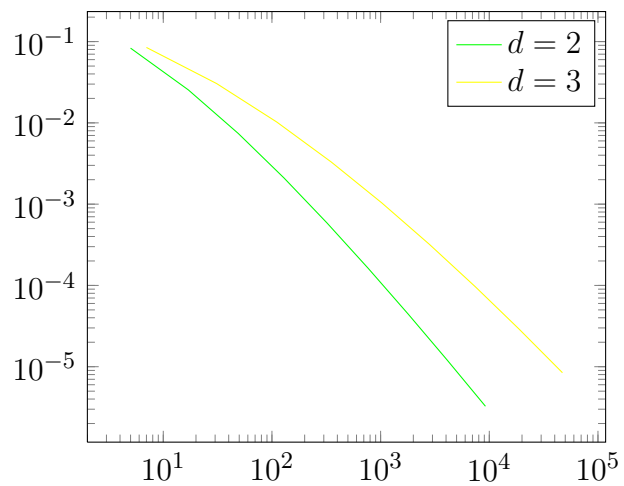
## 17 pgfplotstest.styles.tex

### 17.1 Style tests

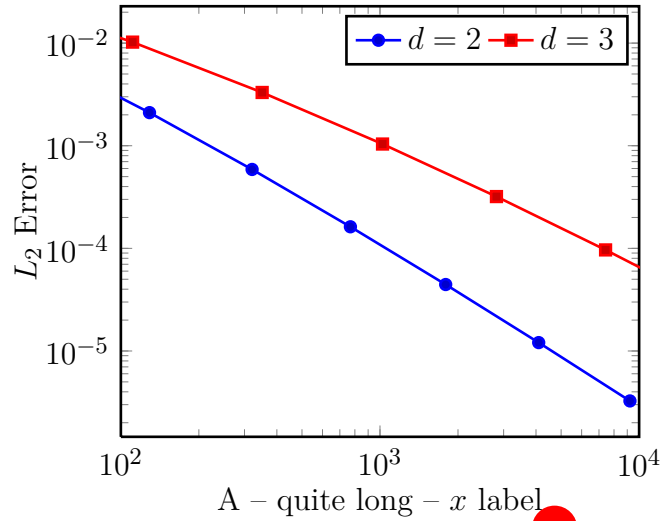
#### 17.1.1 Limits in ‘every axis’; ‘cycle list’ option and ‘cycle list name’ option



#### 17.1.2 testing ‘every loglog axis’ style

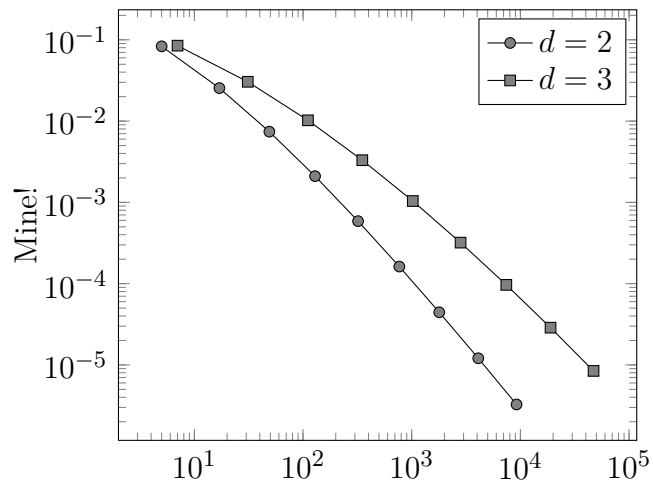


## 17.1.3 Using several ‘every ...’ styles

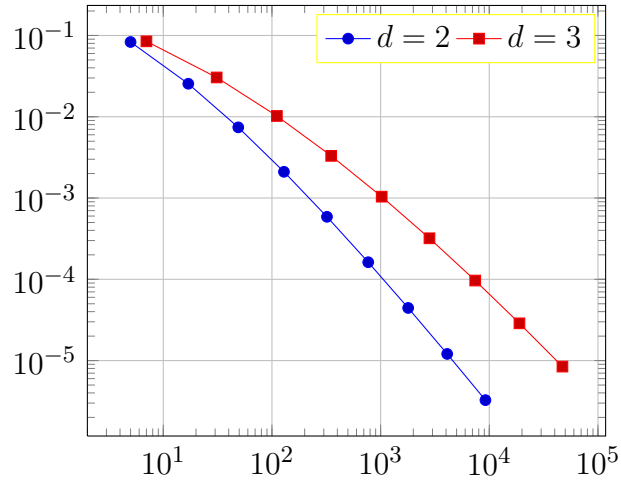


## 17.1.4 Using the ‘style=’ option

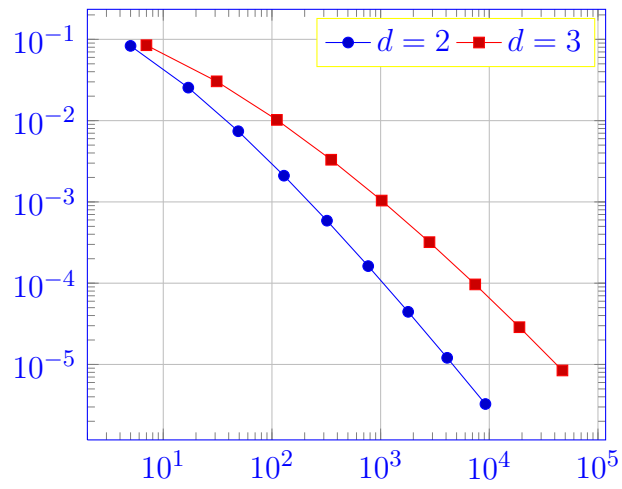
My personal title

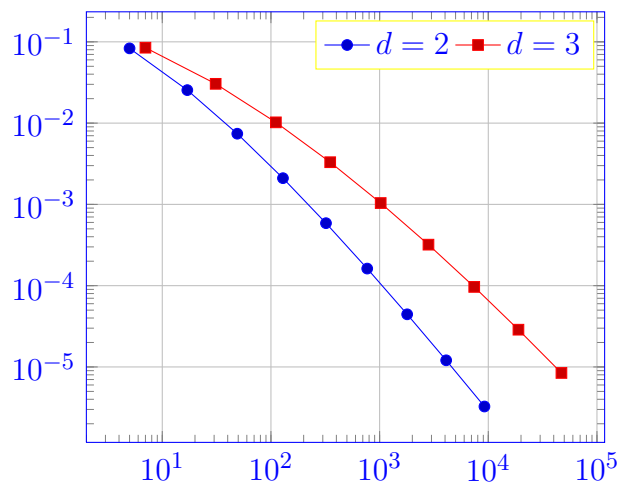


## 17.1.5 legend style, grid style, x label style etc. options

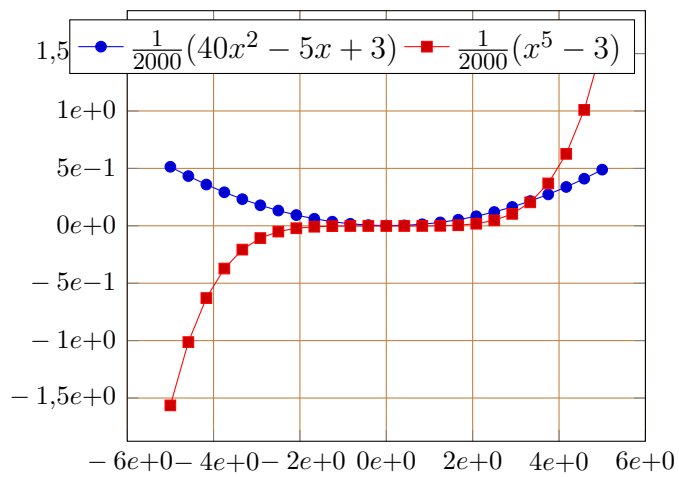


## 17.1.6 Providing TikZ-options to either tikzpicture or axis

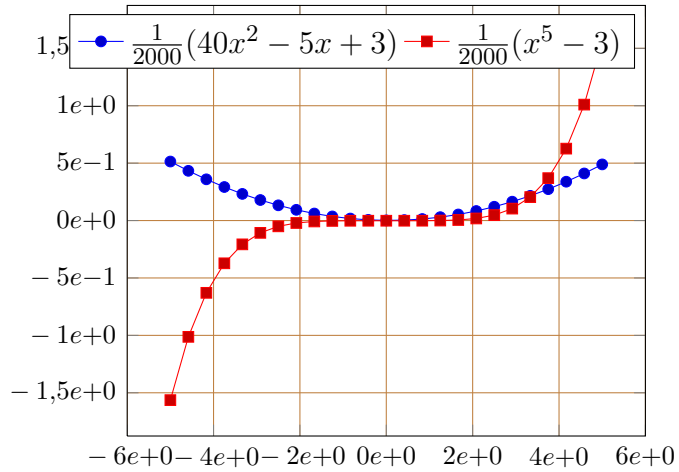




### 17.1.7 Collecting many options together

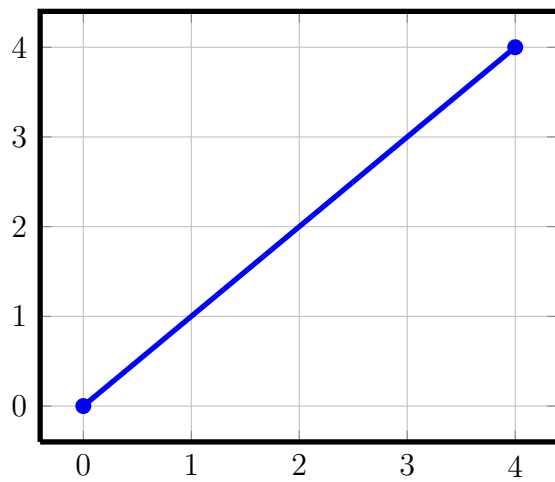


### 17.1.7.1 Putting the same options into a style...

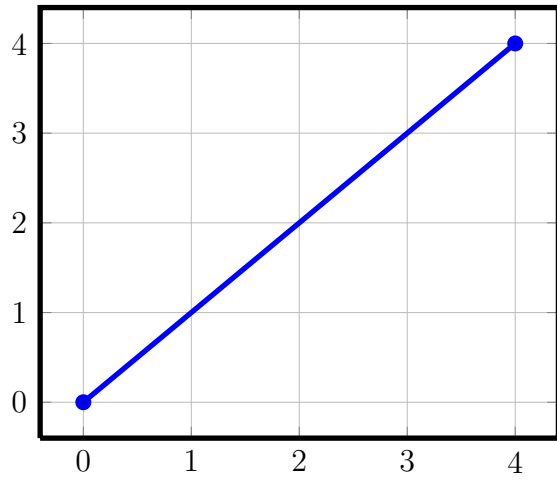


### 17.1.8 Line width

#### 17.1.8.1 2pt global

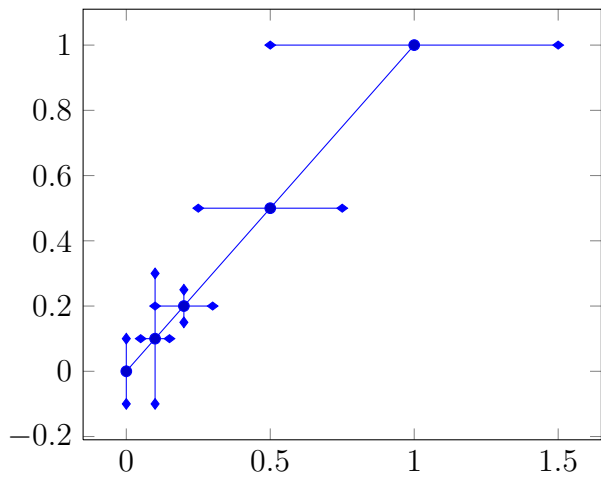


17.1.8.2 2pt in every axis

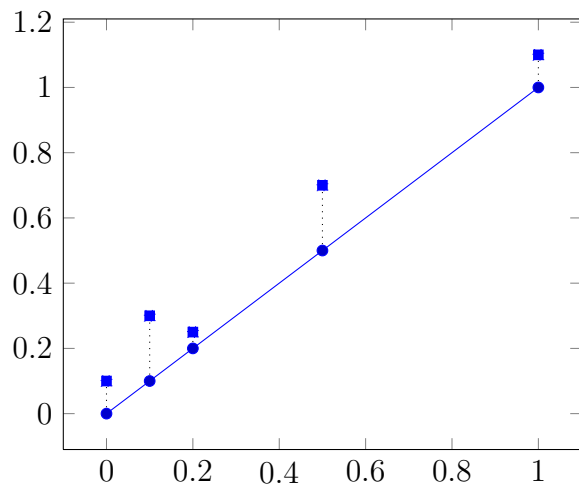


## 18 pgfplotstest.errorbars.tex

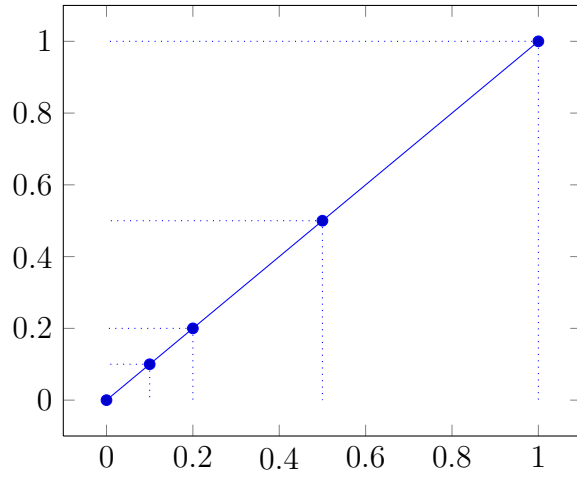
### 18.1 Errorbars



### 1 changing styles

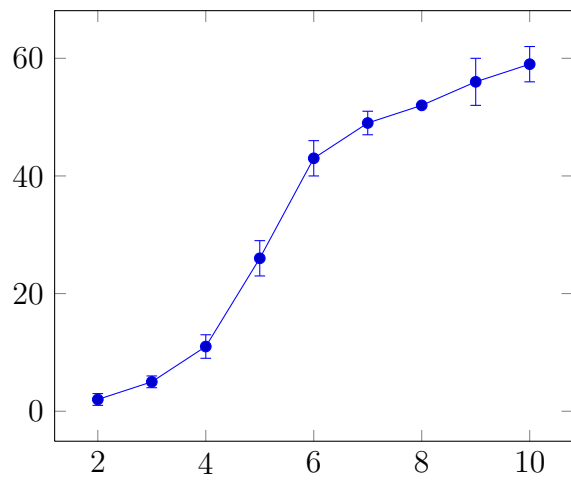


2 using 100% minus



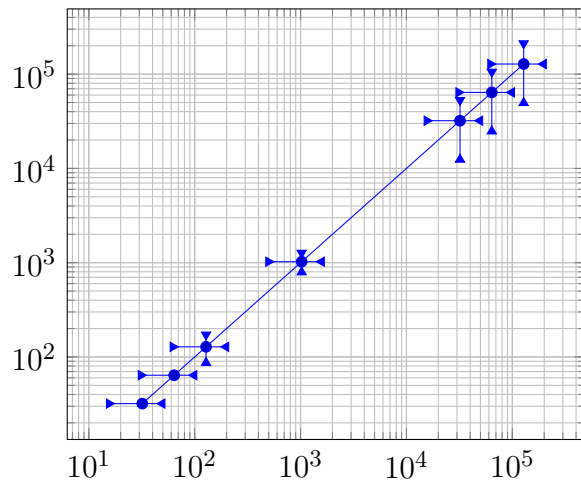
3 with plot table

maxlevel versus cgiter, table ??tbl:k

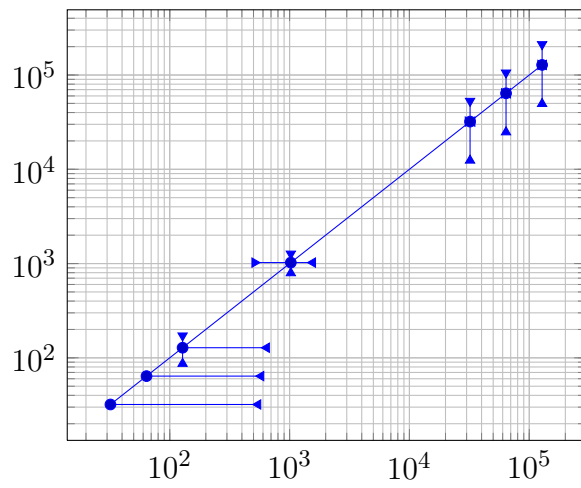


### 18.1.1 Log-plot

#### 18.1.1.1 relative errors

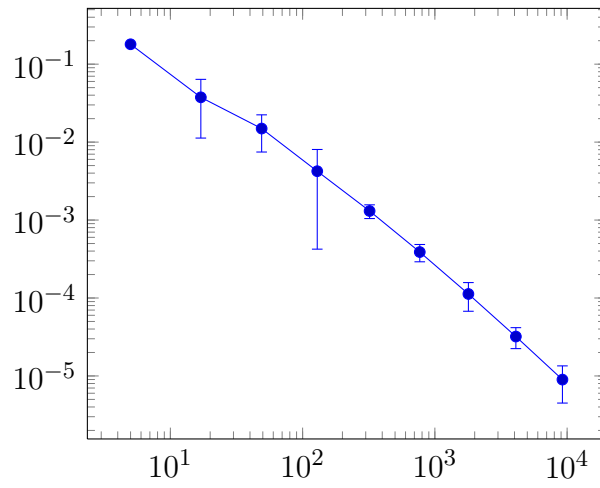


#### 18.1.1.2 x fixed=500, y explicit relative



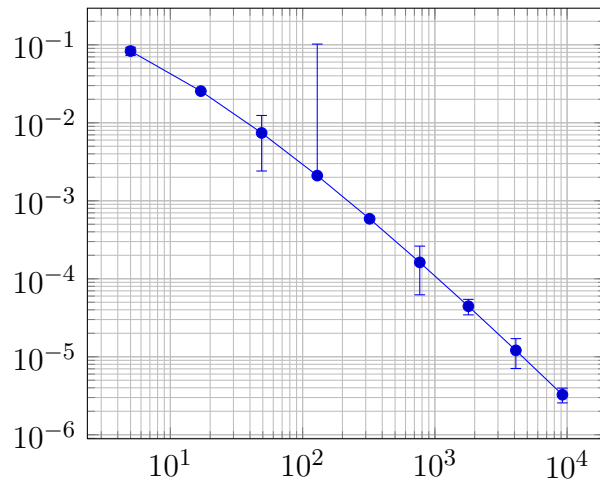
## 18.1.1.3 with plot table

dof versus Lmax, table ??tbl:k



## 18.1.1.4 with plot table absolute

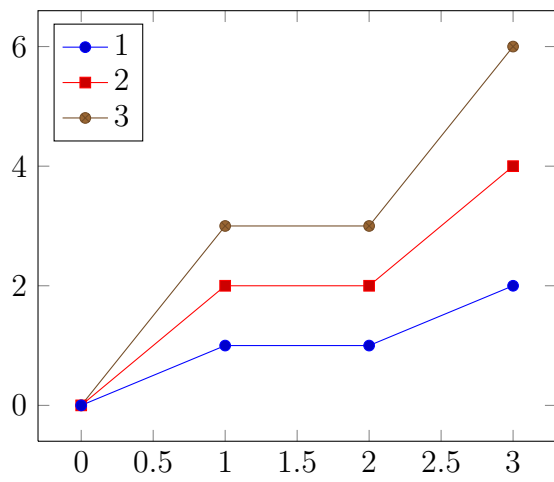
dof versus L2, table ??tbl:k



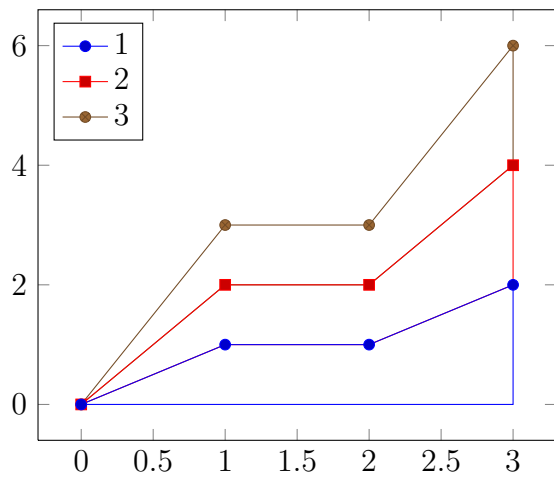
## 19 pgfplotstest.plottypes.tex

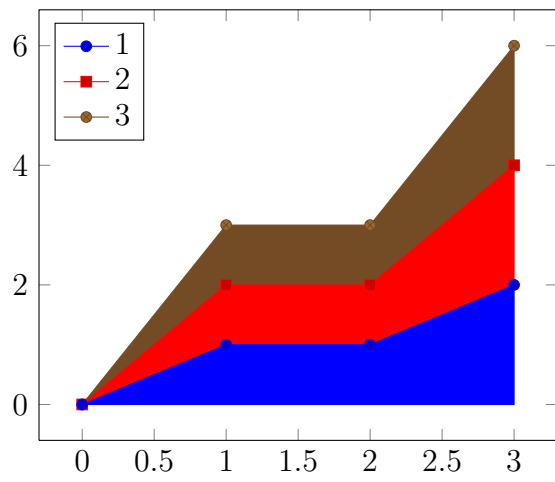
### 19.1 Stacked plots

#### 19.1.1 stack y, sharp plot

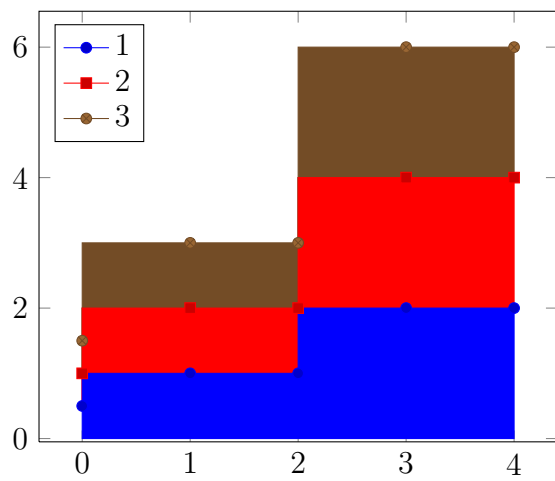
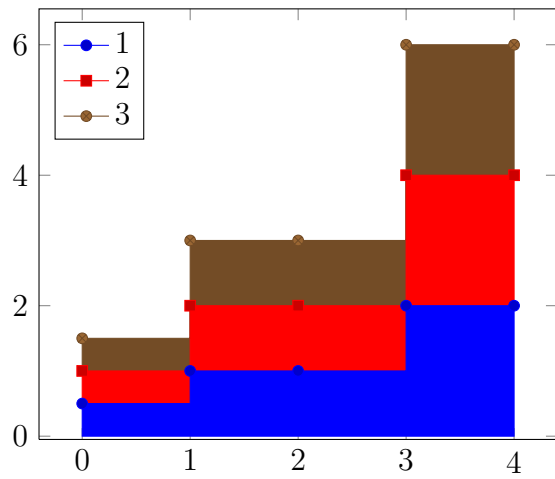


#### 19.1.1.1 with closedcycle

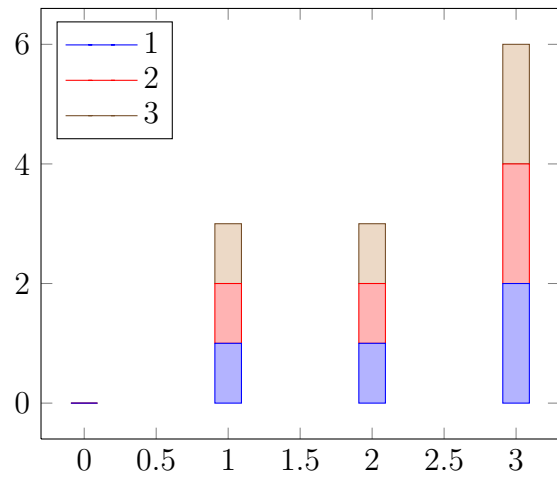




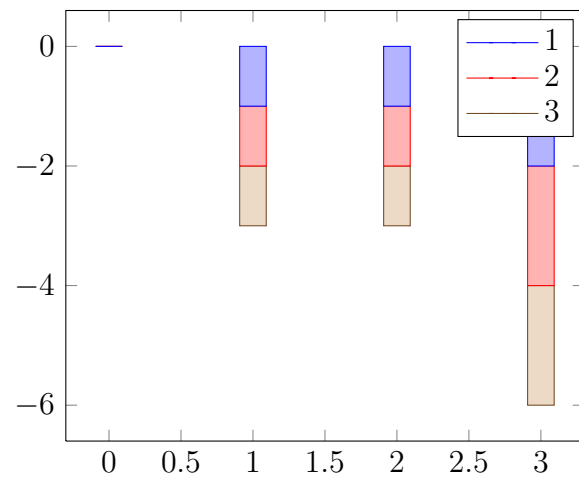
19.1.1.2 with closedcycle and const plots



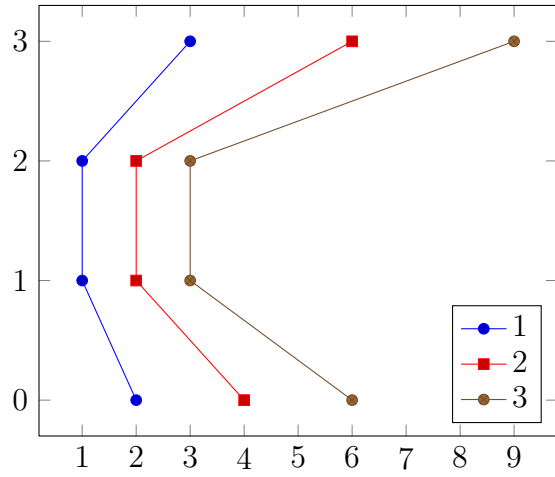
## 19.1.2 stack y, ybar



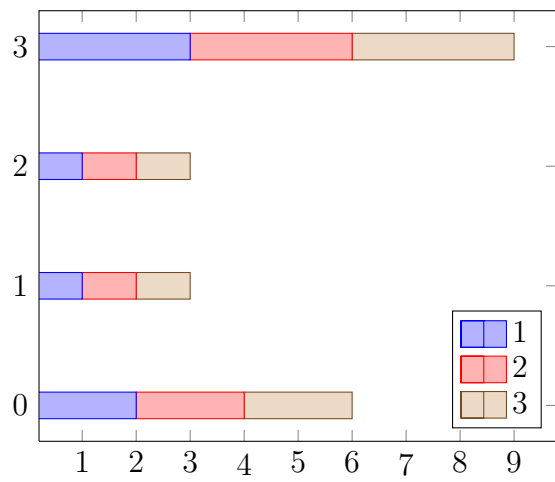
## 19.1.3 stack y, ybar, minus



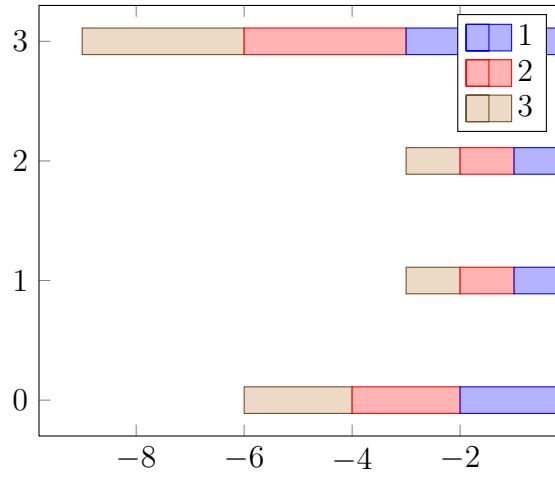
## 19.1.4 stack x, sharp plot [not useful]



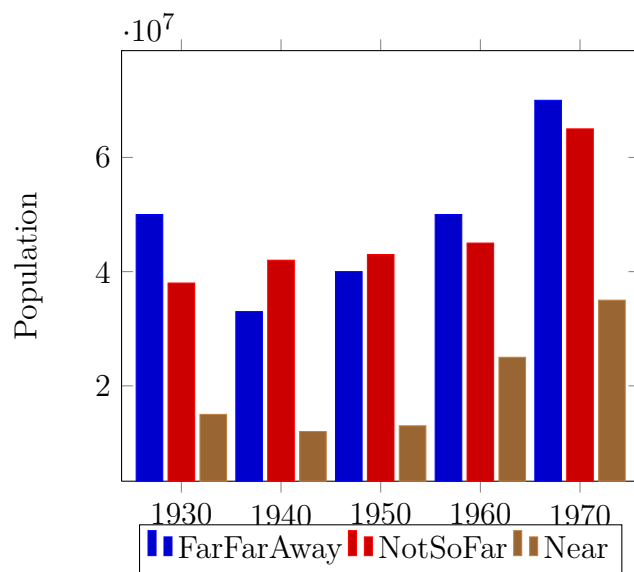
## 19.1.5 stack x, xbar



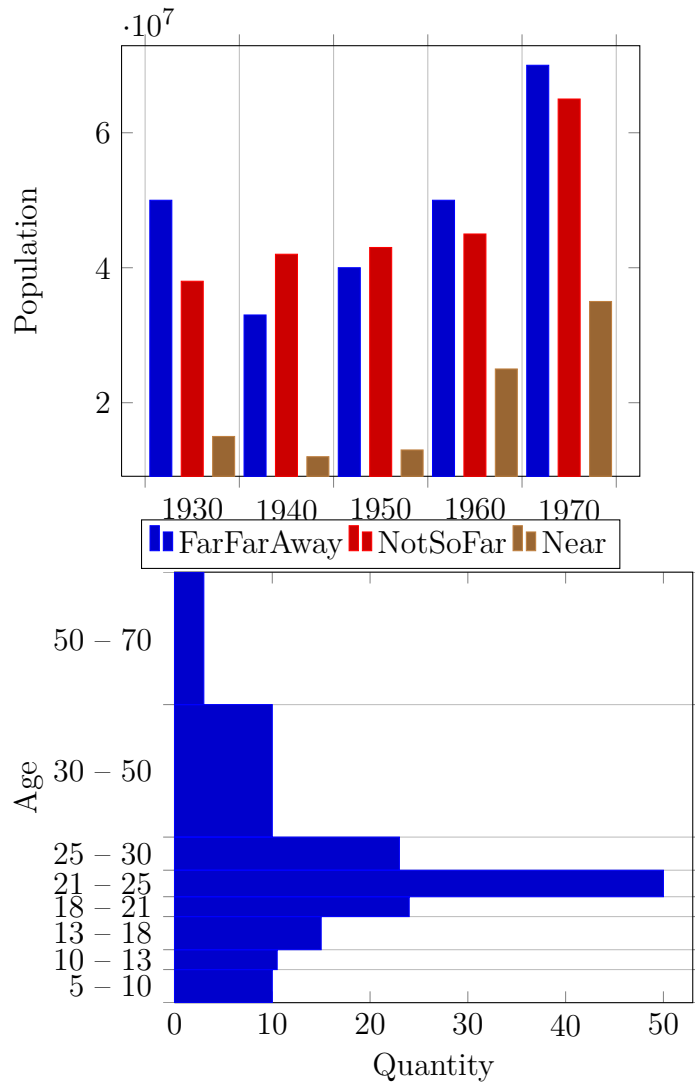
## 19.1.6 stack x, xbar, minus



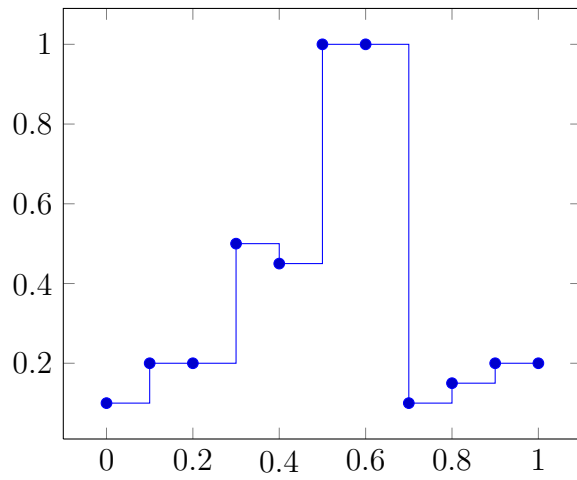
## 19.2 Bar diagrams



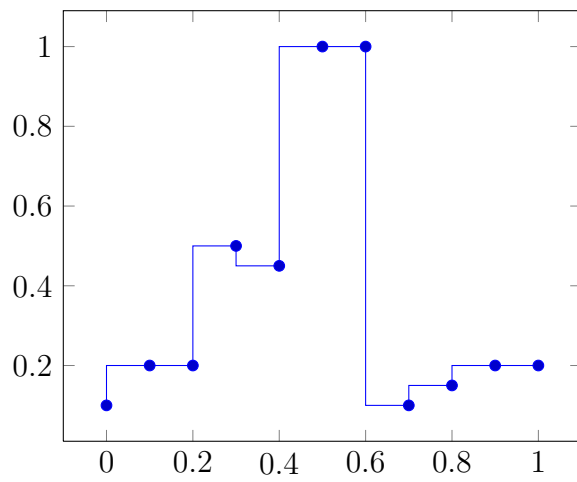
## 19.2.1 Interval bar handlers



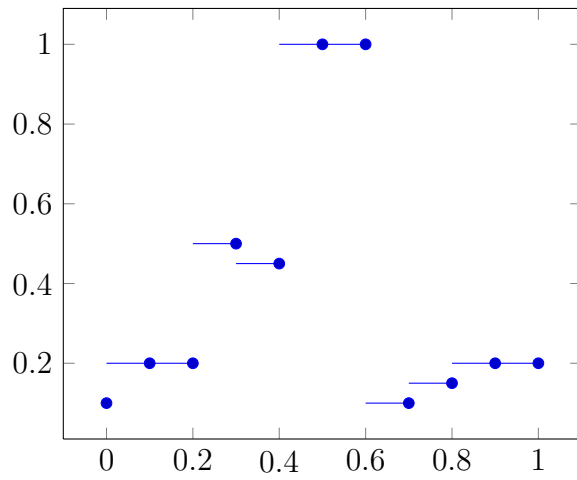
## 19.3 const plot



## 19.4 const plot mark right



## 19.5 jump mark right



## 19.6 jump mark left

