Graphics examples   Name:
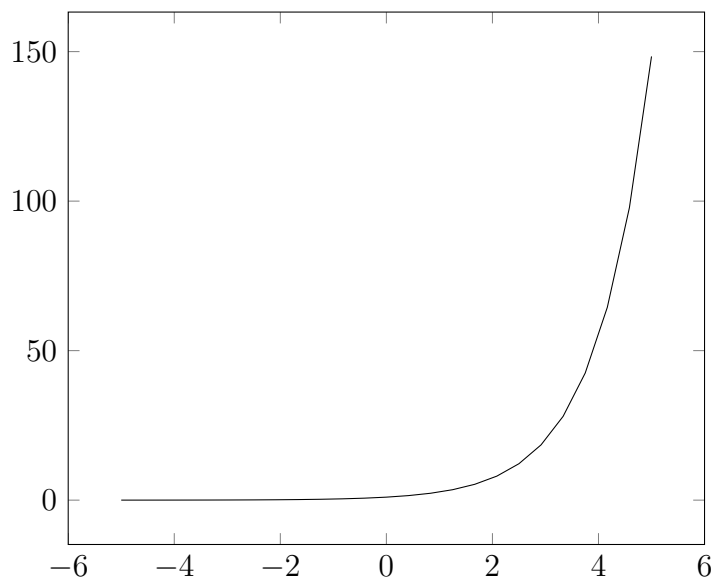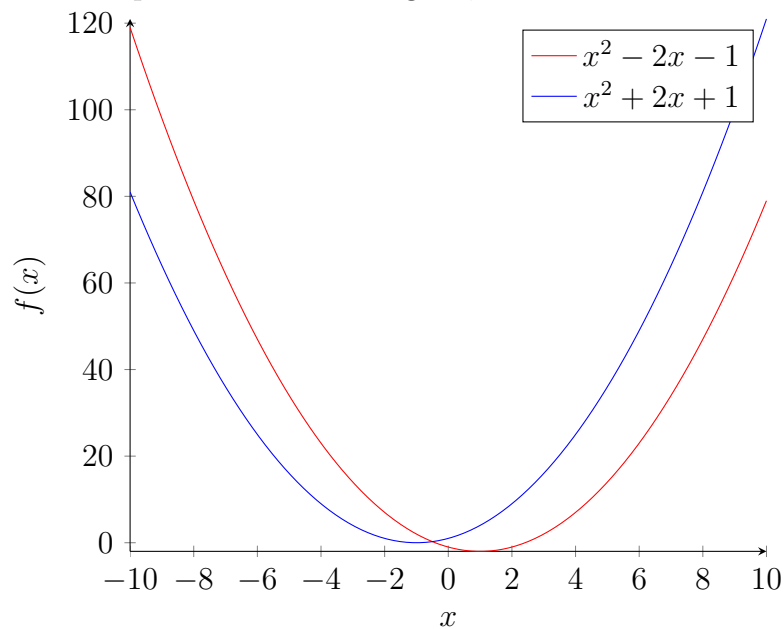
\usepackage{tikz}
\usepackage{pgfplots}
\pgfplotsset{width=10cm,compat=1.9}
\usepgfplotslibrary{statistics}
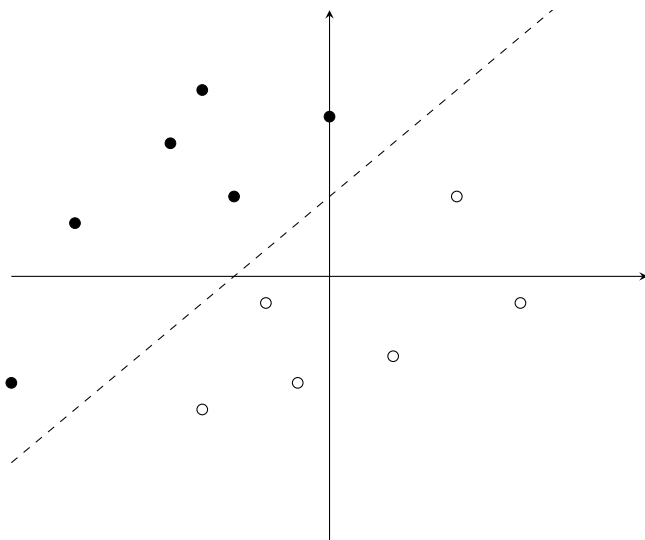\usepackage{pgfplotstable}

1. Function in a box

2. Function plot in color with legend, domain & axes

3. Scatter plots from data table

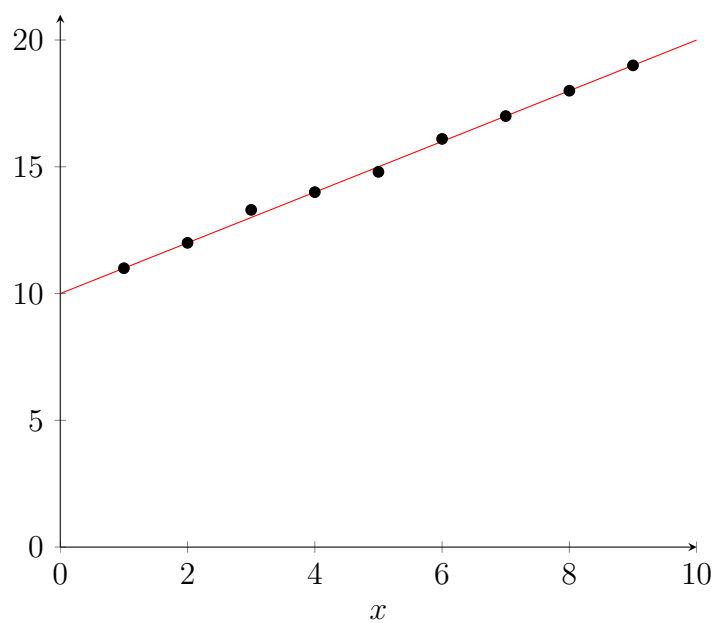**Graphics examples**   Name:
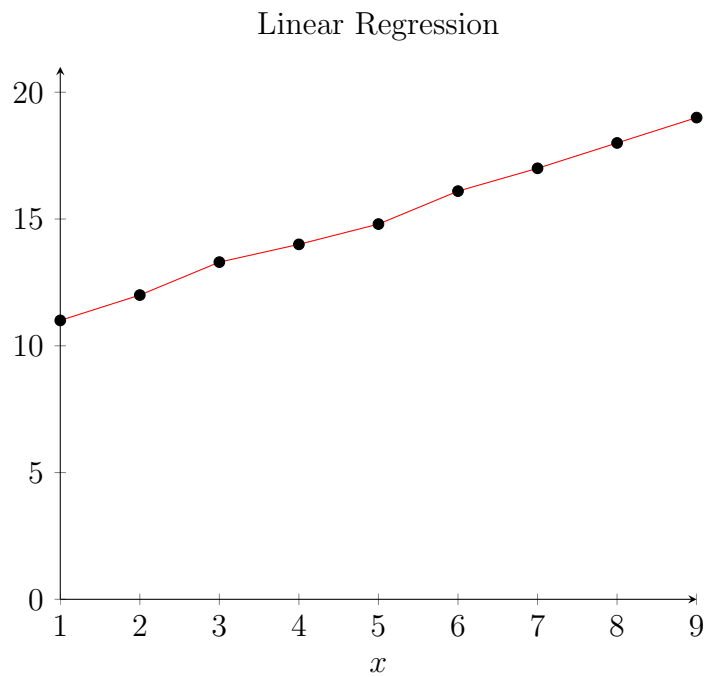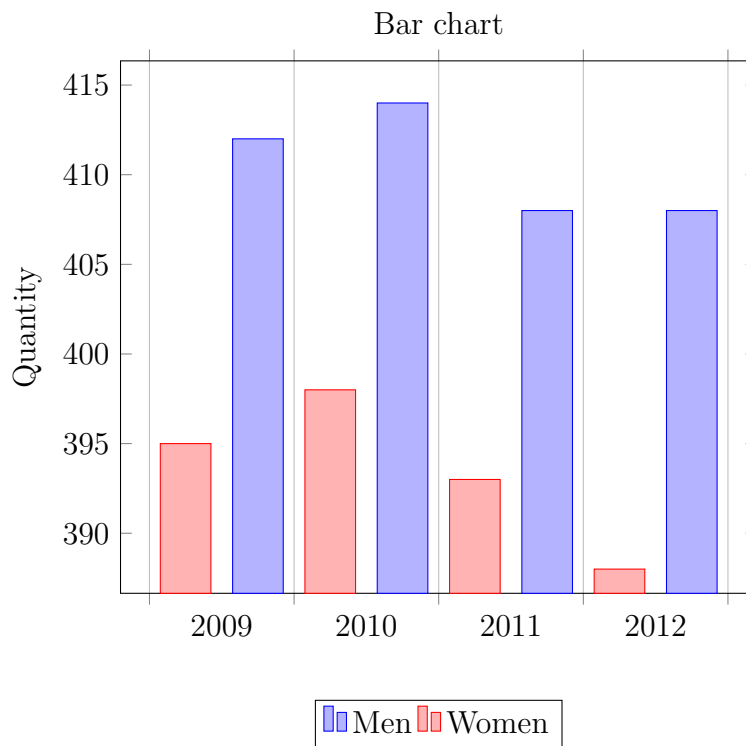

4. File data, scatter plot, titles

Data plot from file

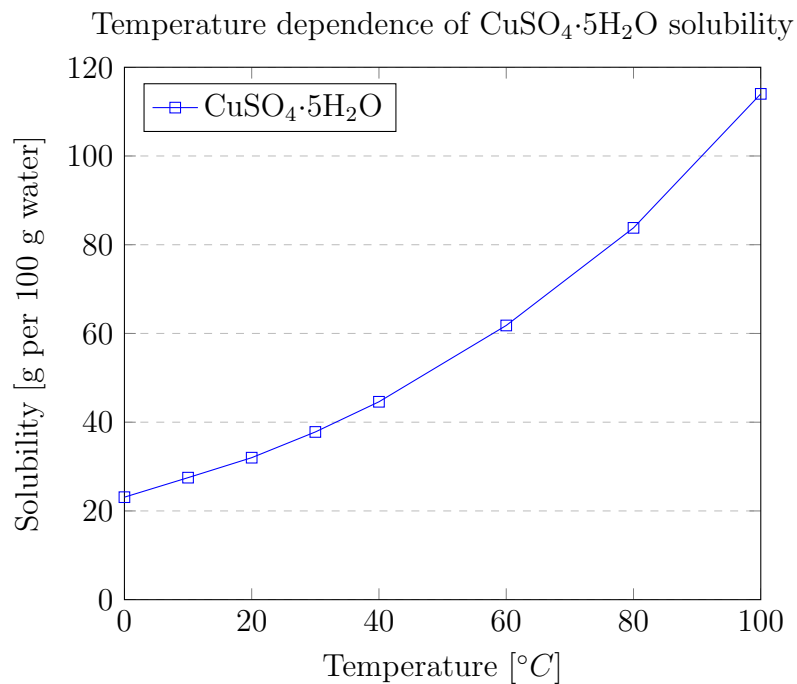Linear regression function (isn't quite working) (needs package pgfplotstable)

Linear Regression

5. Histogram ("ybar interval=1")

Bar chart

6. Fancy scientific example

Temperature dependence of $CuSO_4\cdot 5H_2O$ solubility
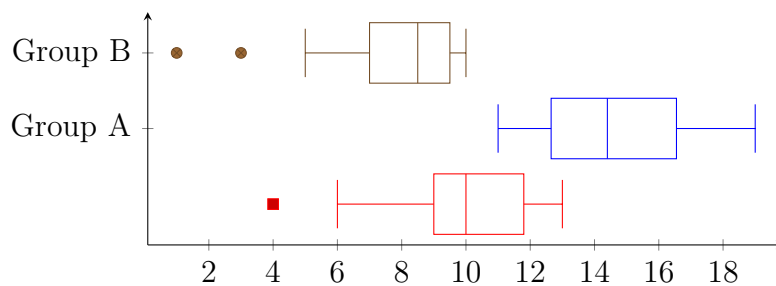

7. Box plot, various algorithm calculations from data file are possible (not quite working)

Box & whisker plot, "boxplot prepared"

Expected value given table (fair)

8. Given the following probability distribution, with $E(x) = 2.5$

x	0	1	2	4
P(x)	p	0.3	0.1	q

(a) Find the value of $\quad p$

(b) Find the value of q