

# Graphics in L<sup>A</sup>T<sub>E</sub>X

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February 11, 2015

## 1 Including premade graphics



One can include pre-made graphics:

The environment for any graphics is figure:



Figure 1: The logo of CEU.

You can put multiple graphics in one figure environment:



(a) CEU



(c) Math

Figure 2: Multiple images in one figure.

## 2 Introduction to *TikZ*

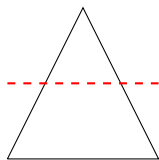


Figure 3: My first *TikZ* picture

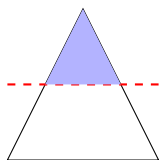


Figure 4: My second *TikZ* picture

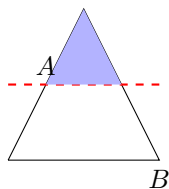


Figure 5: Labeling stuff in *TikZ*

### 3 Introduction to PGFPlots

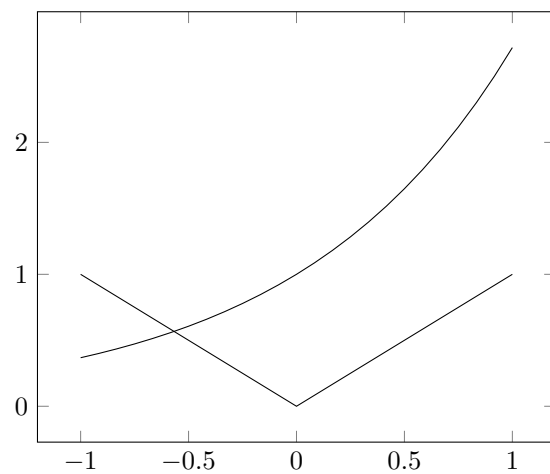


Figure 6: My first PGFPlots plot

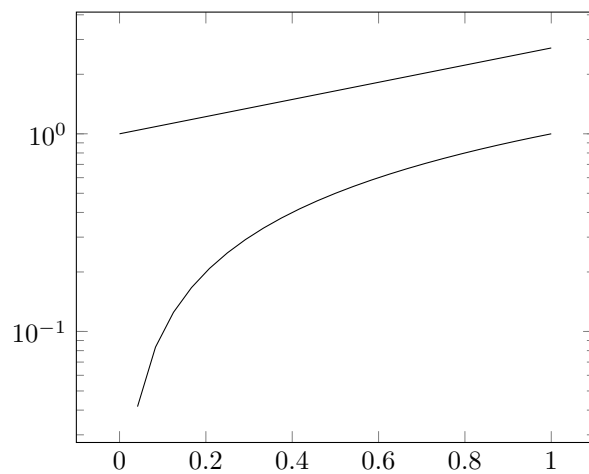


Figure 7: Logarithmic axes in PGFPlots

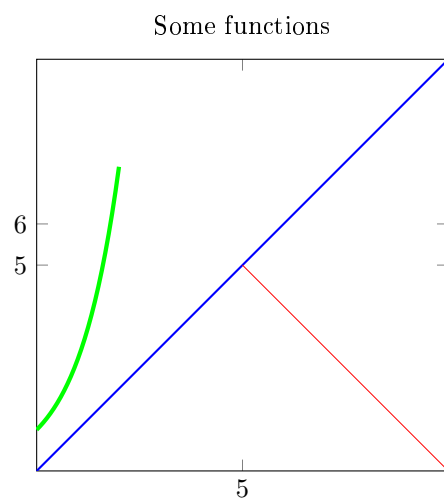


Figure 8: Options for axes and plots in PGFPlots

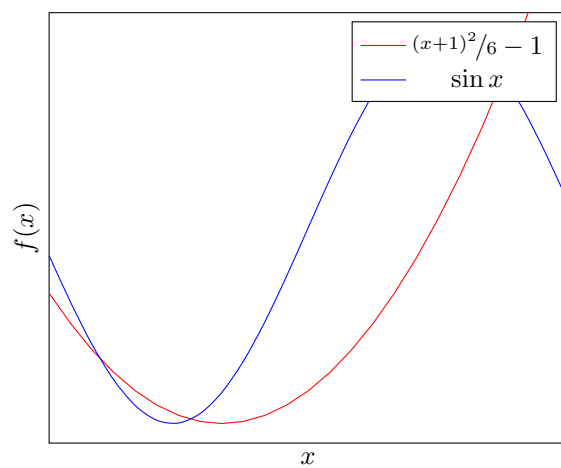


Figure 9: A classic Cartesian coordinate plane

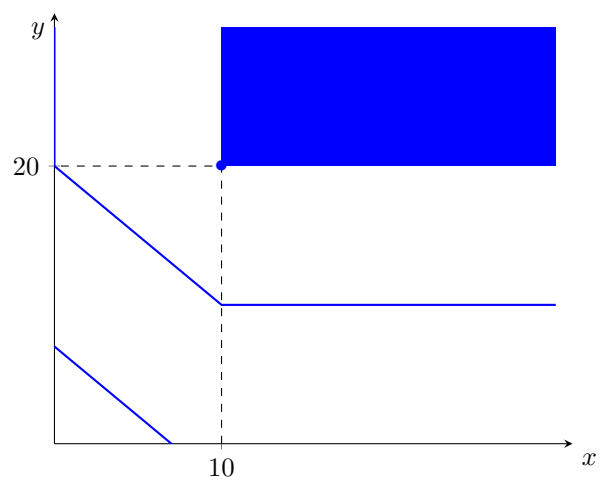


Figure 10: A familiar figure.

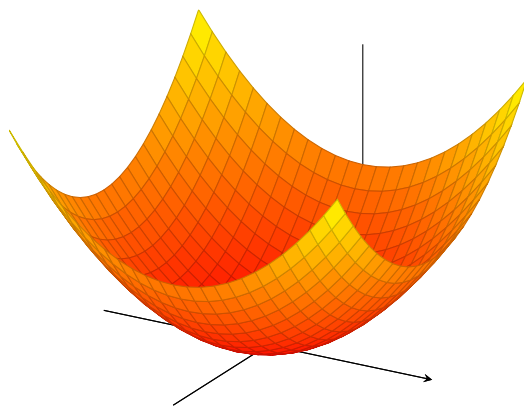


Figure 11: 3D plot in PGFPlots