

## Lesson Fourteen: TikZ

TikZ is a package you can use to draw figures directly into your L<sup>A</sup>T<sub>E</sub>X documents. Bridget Ruff '18 was kind enough to share some examples from her thesis; these have been adapted below. We encourage you to try these examples, then consult the following for further ideas.

- An online TikZ manual: <http://cremeronline.com/LaTeX/minimaltikz.pdf>
- Lots of examples in TikZ: T<sub>E</sub>Xample (<http://www.texample.net/>)
- General L<sup>A</sup>T<sub>E</sub>X help: T<sub>E</sub>X – L<sup>A</sup>T<sub>E</sub>X StackExchange (<https://tex.stackexchange.com/>)
- Draw your pictures in GeoGebra and save them in TikZ format (<https://www.geogebra.org/>)

Moving beyond the Bates L<sup>A</sup>T<sub>E</sub>X Manual, you will work on more open-ended assignments and will likely find it helpful to consult friends and online resources as you create documents, homework assignments, and theses in L<sup>A</sup>T<sub>E</sub>X. Now is a good time to begin investigating such resources.

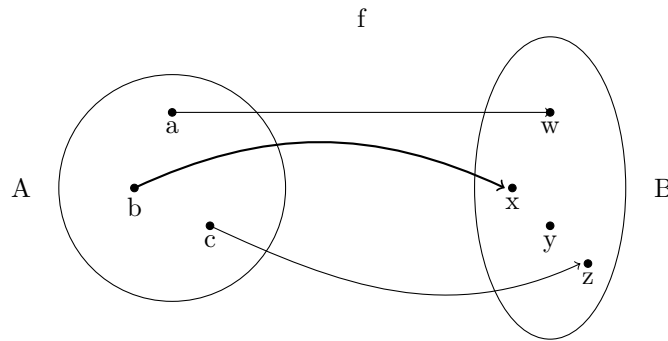


FIGURE 1. A function  $f : A \rightarrow B$

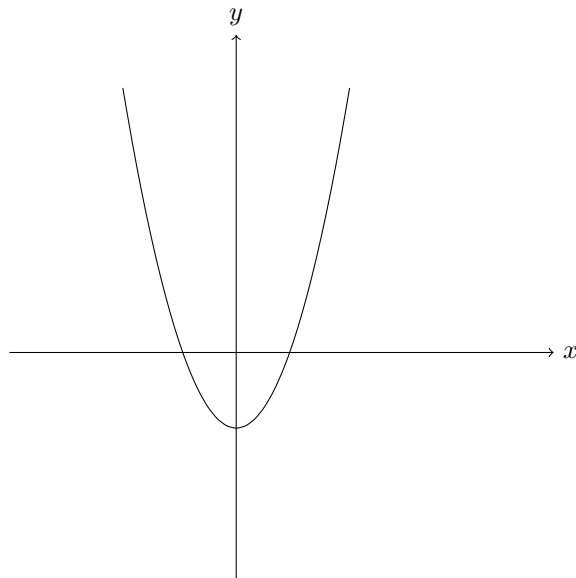


FIGURE 2. The graph of  $f(x) = x^2 - 2$