

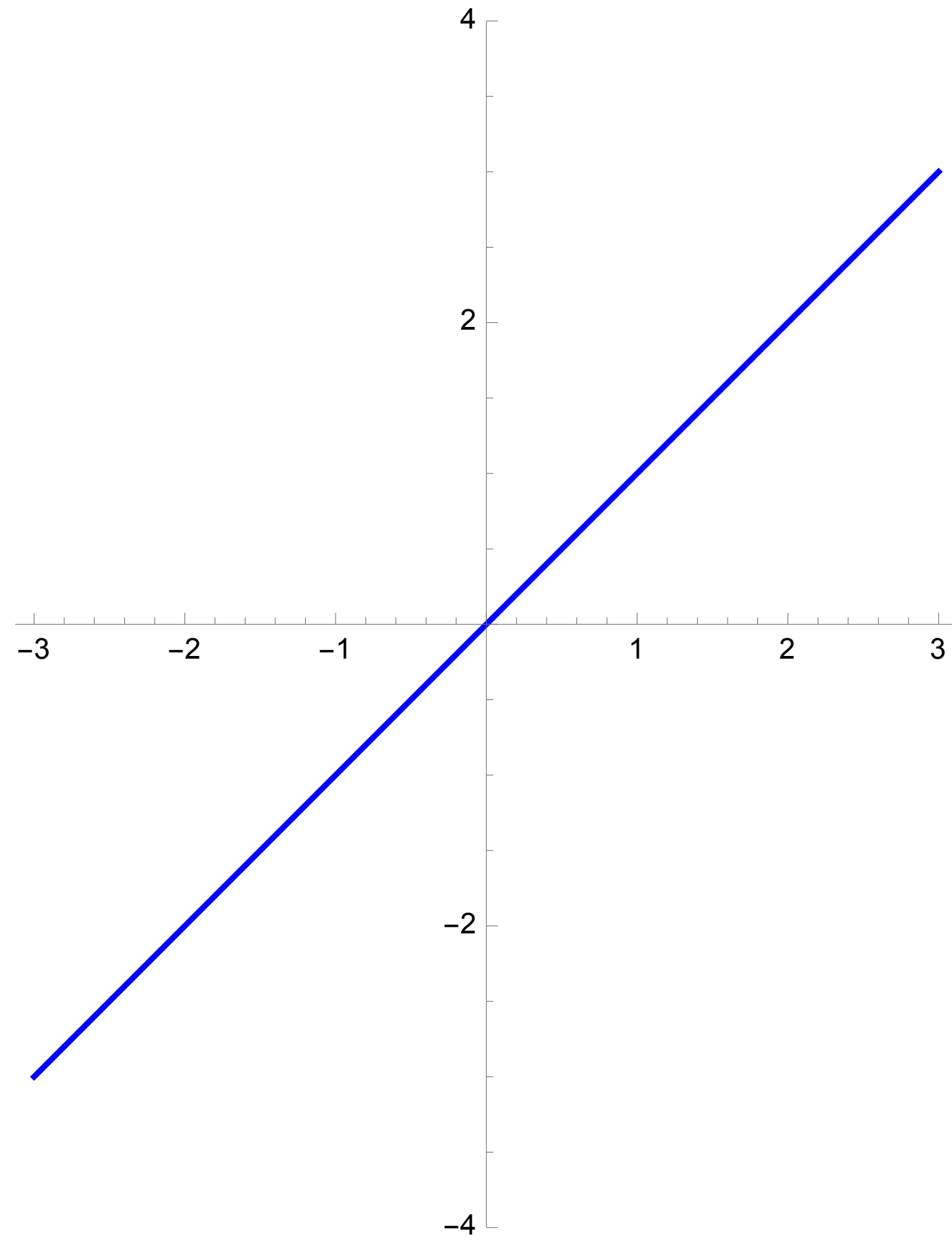
Analysis 1

12 March 2024

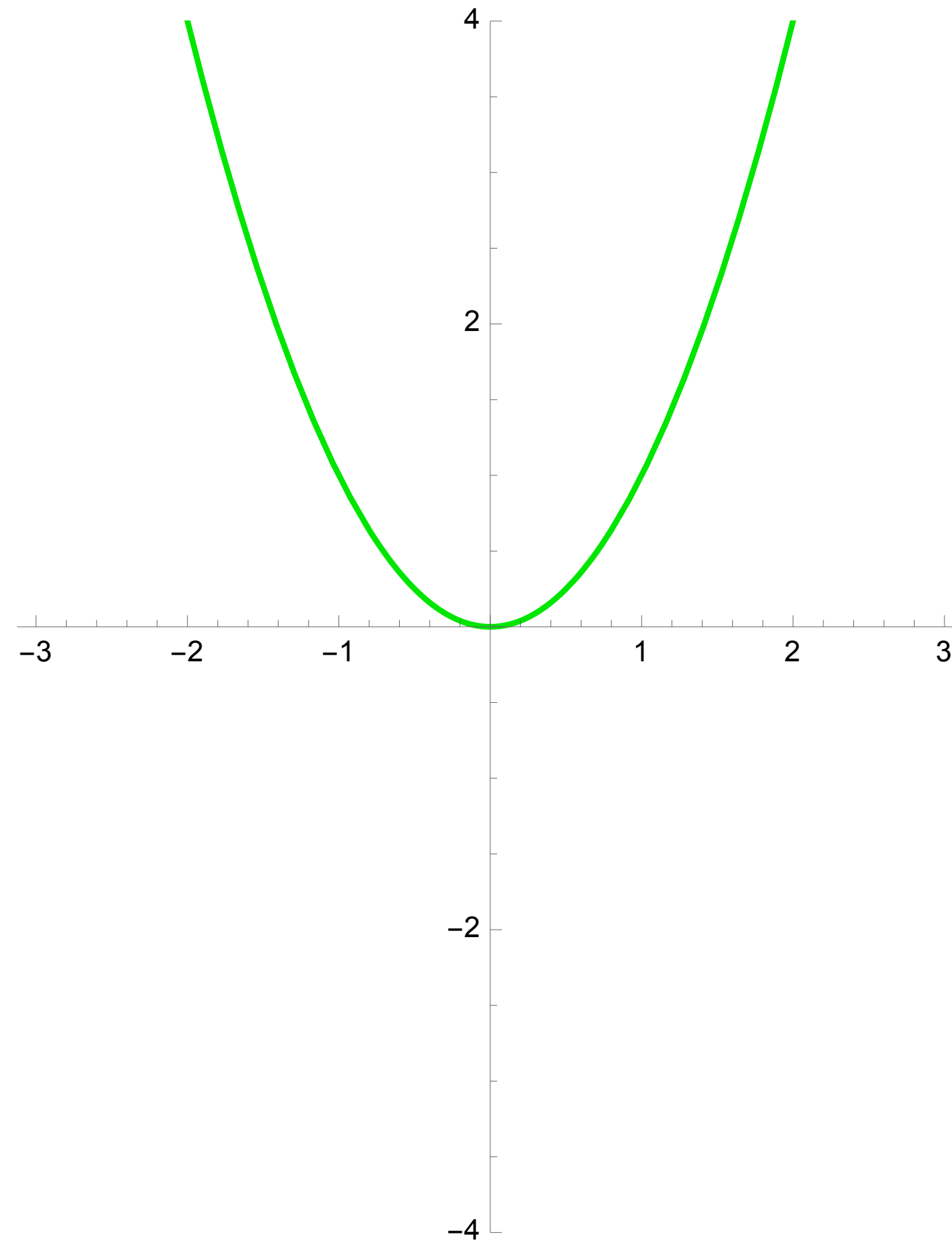
Instructor: Adam Abrams

It is good to know the graphs of several common functions:

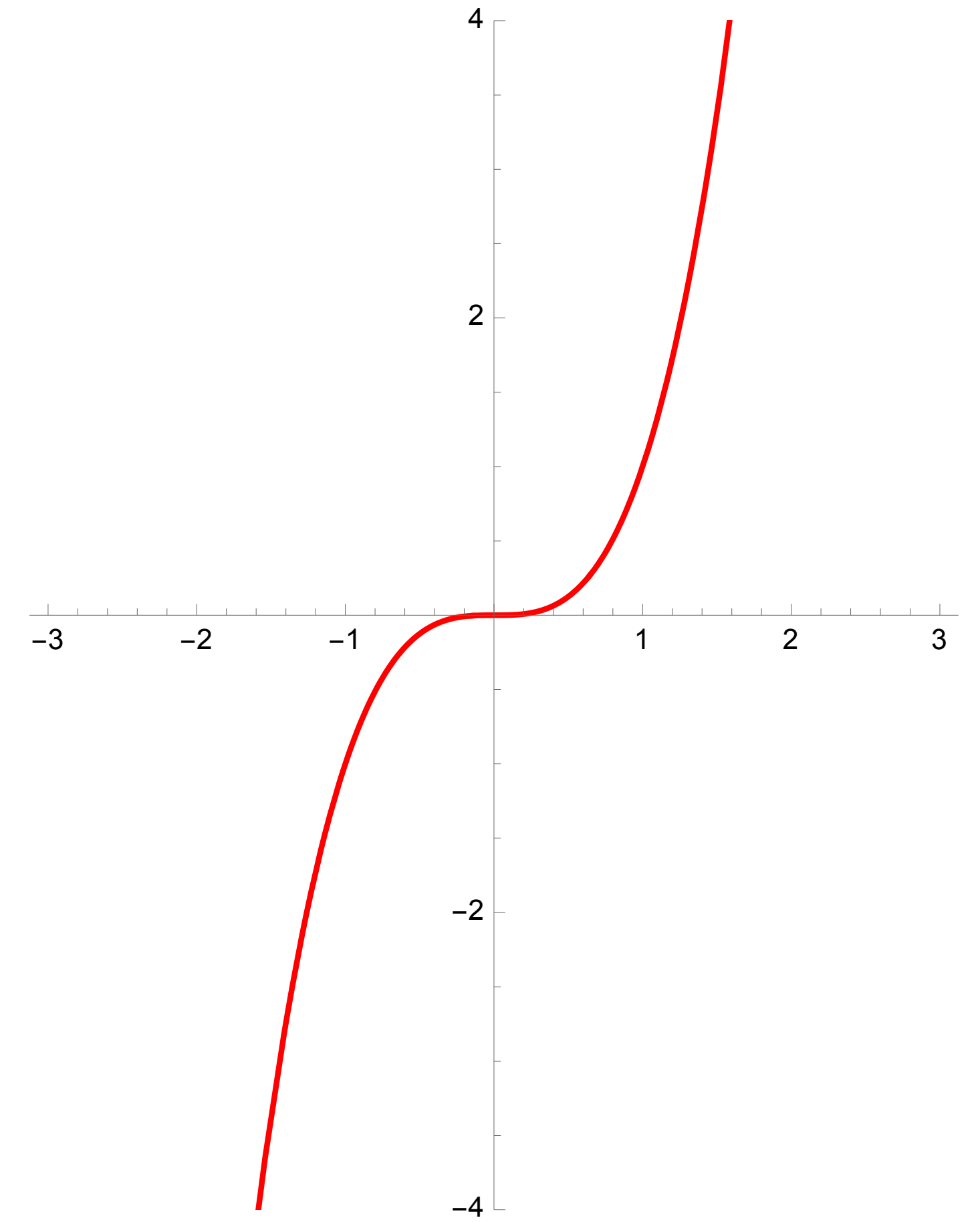
$$y = x$$



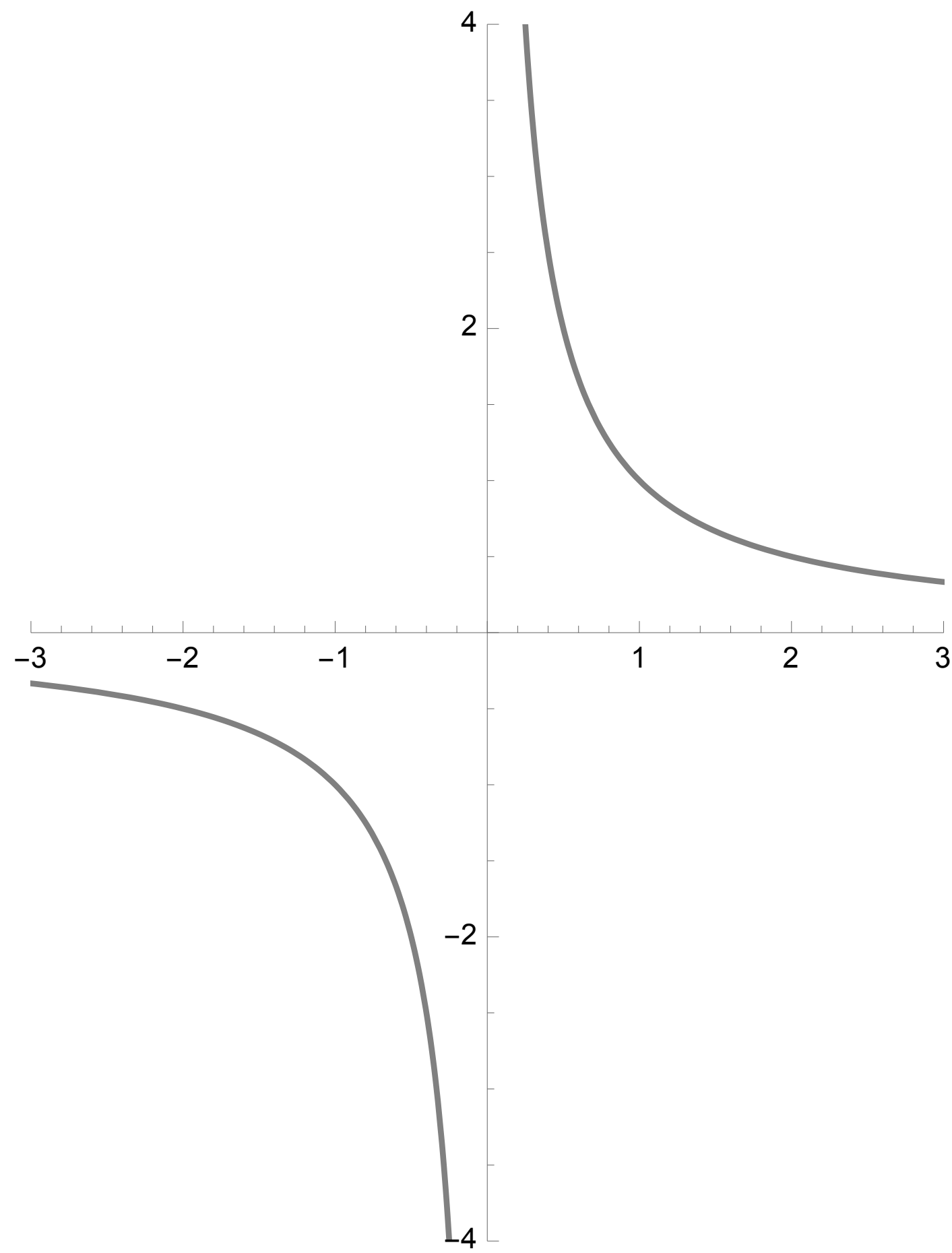
$$y = x^2$$



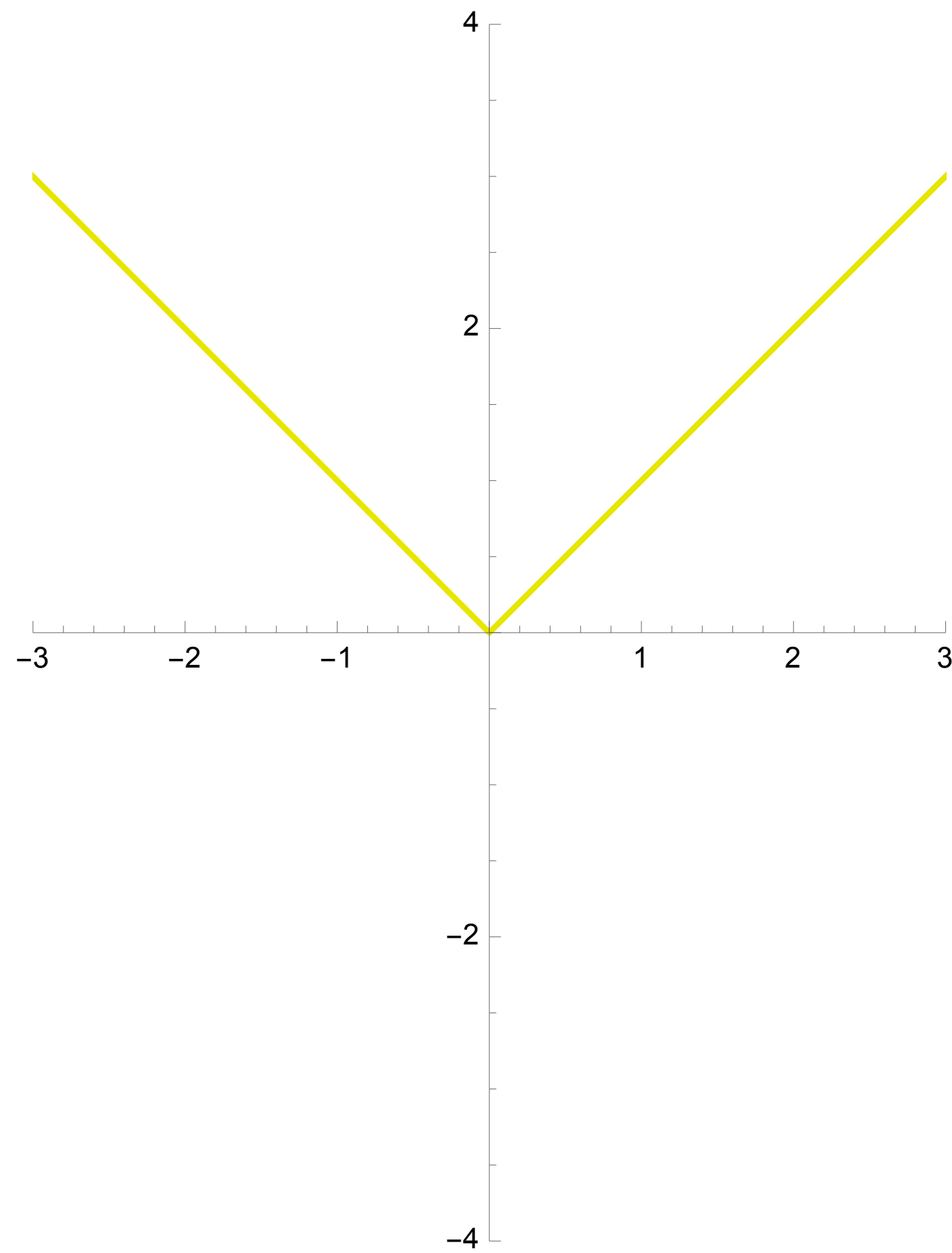
$$y = x^3$$



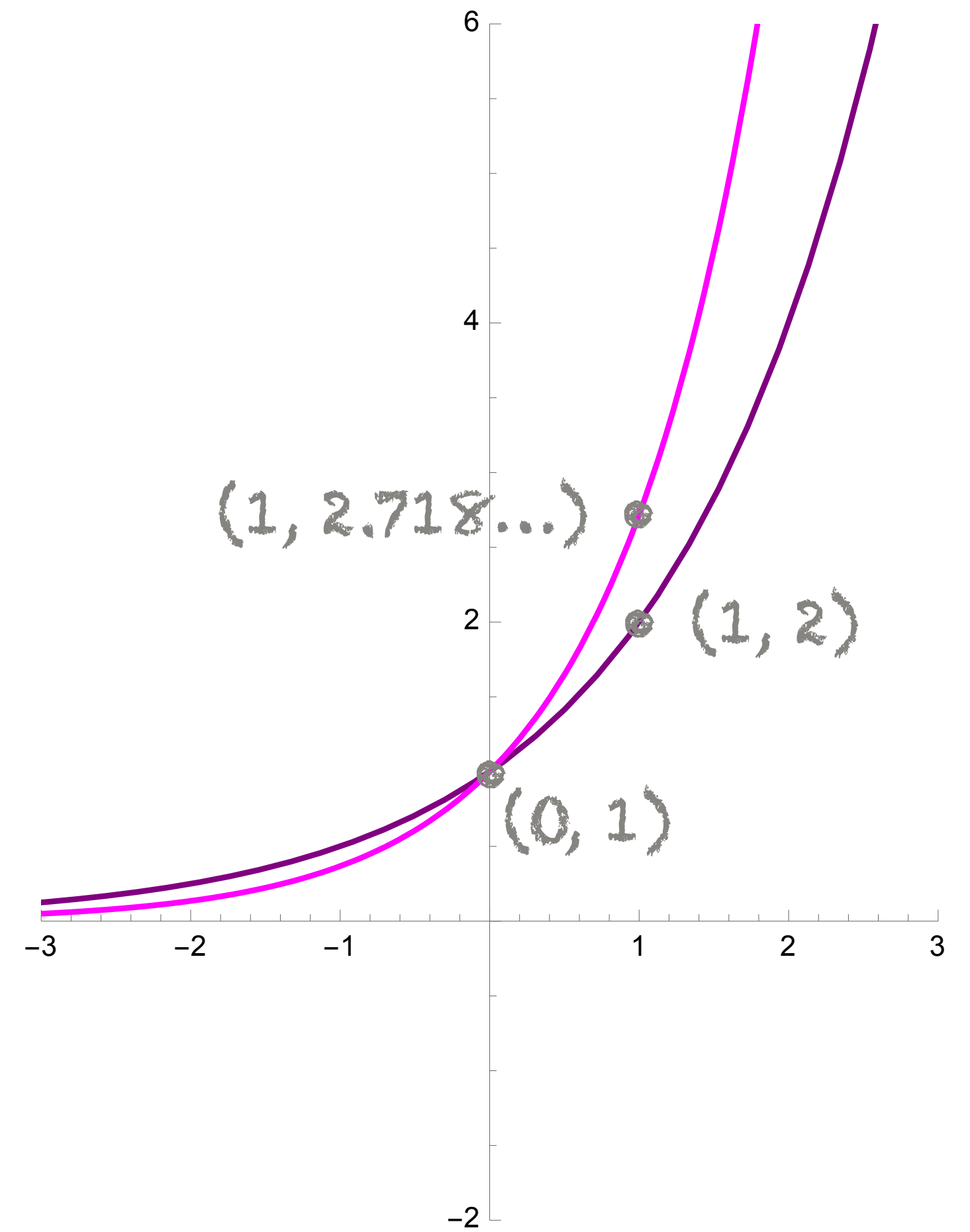
$$y = \frac{1}{x}$$

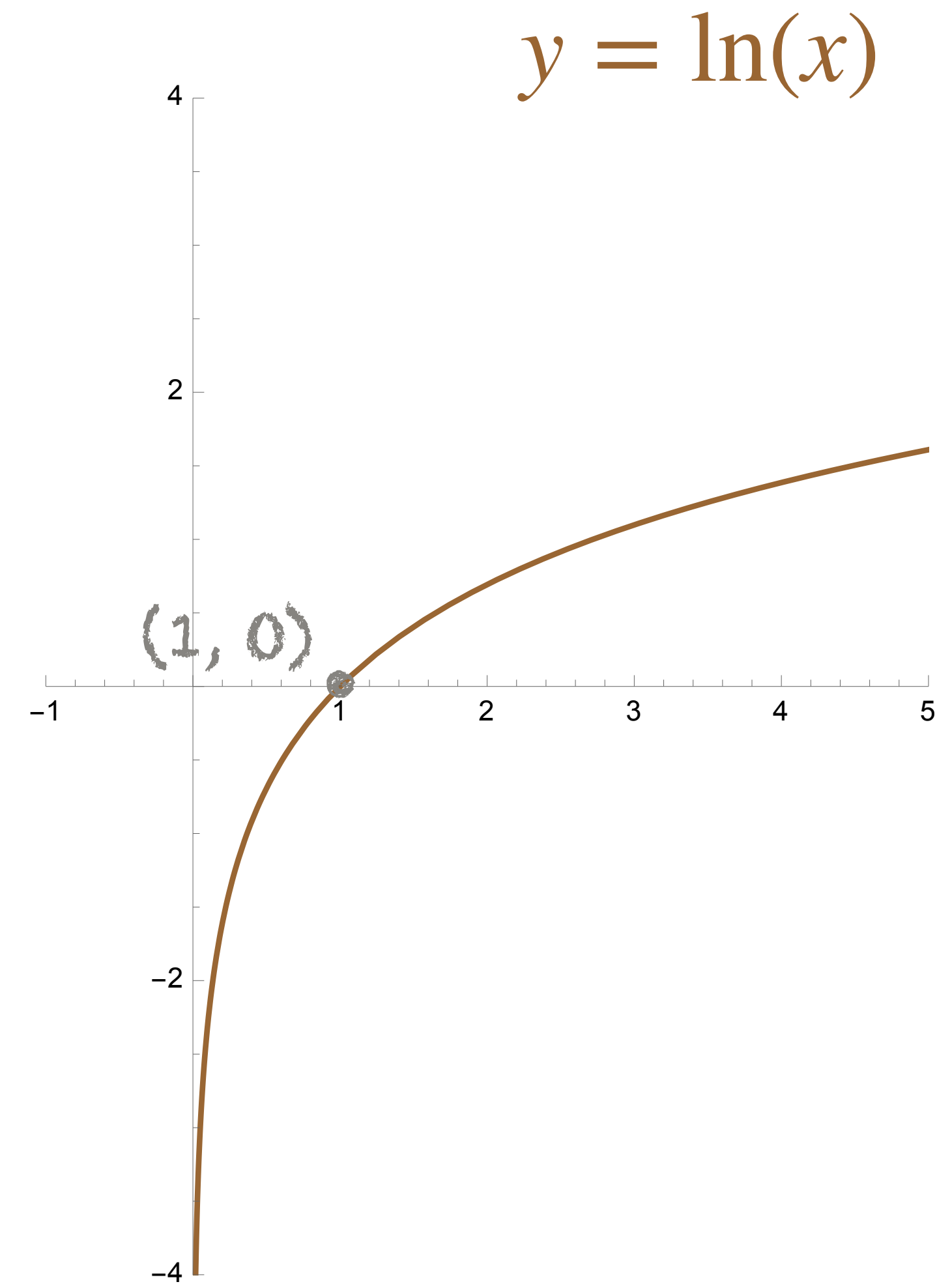
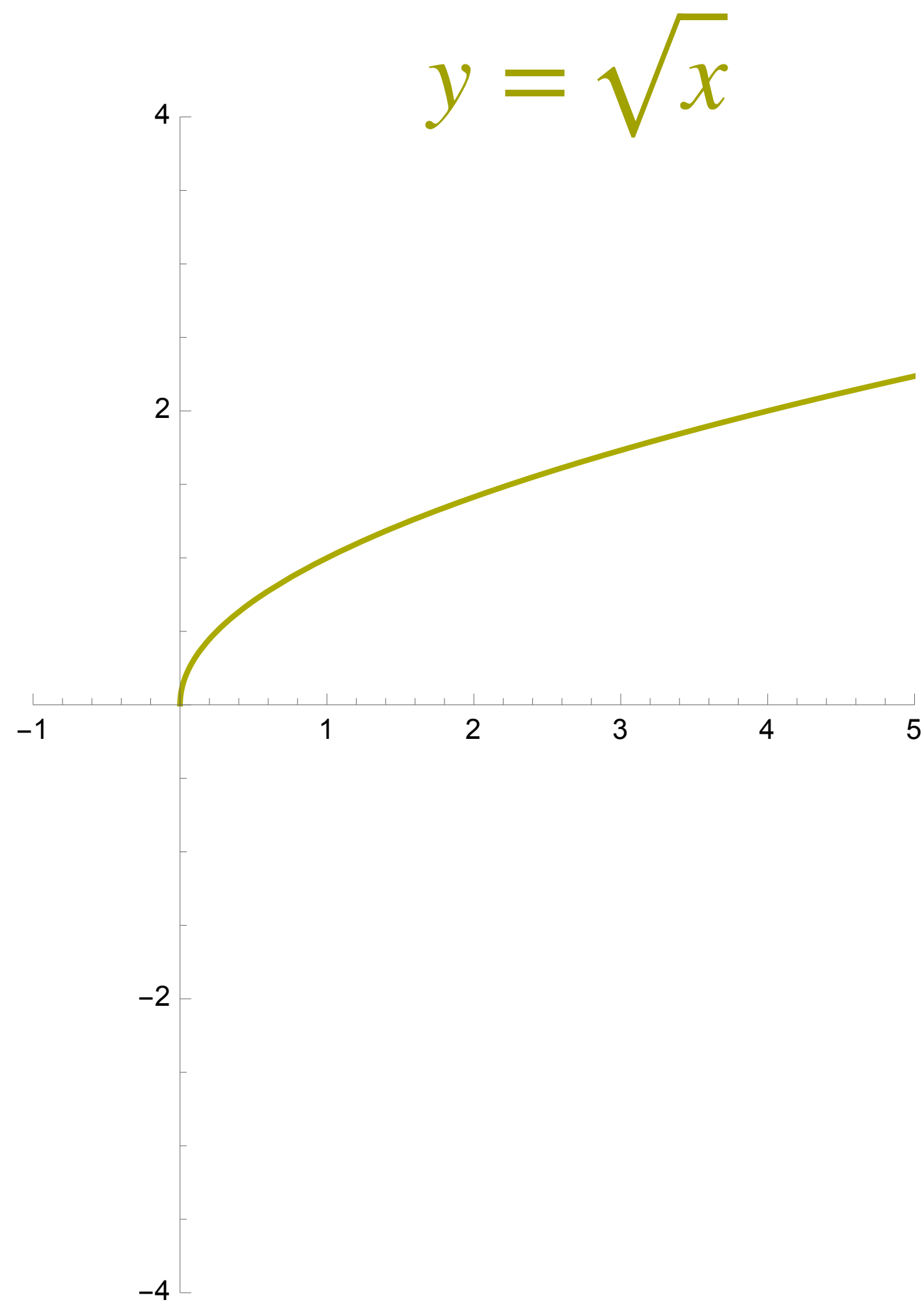


$$y = x$$



$$y = e^x \quad y = 2^x$$

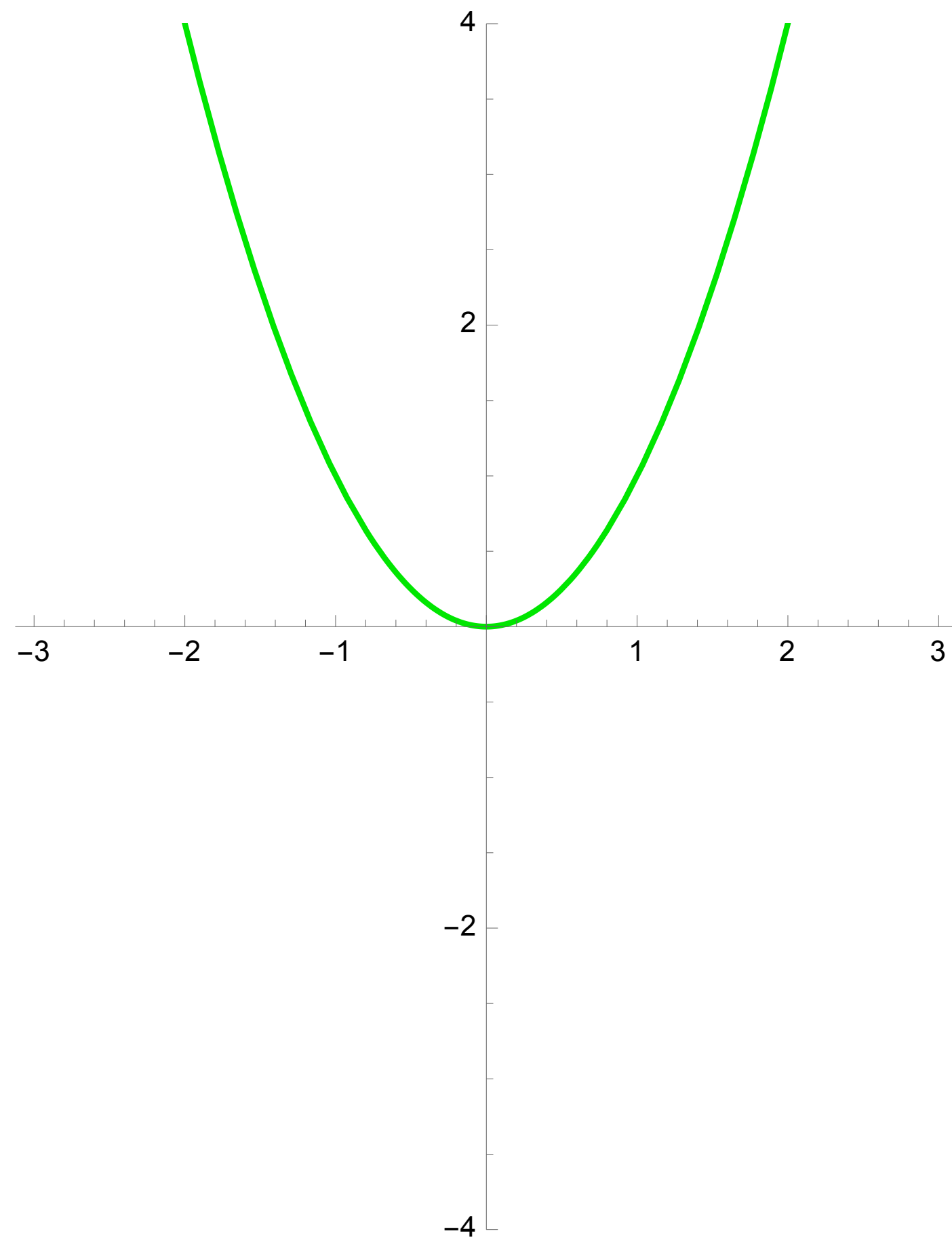




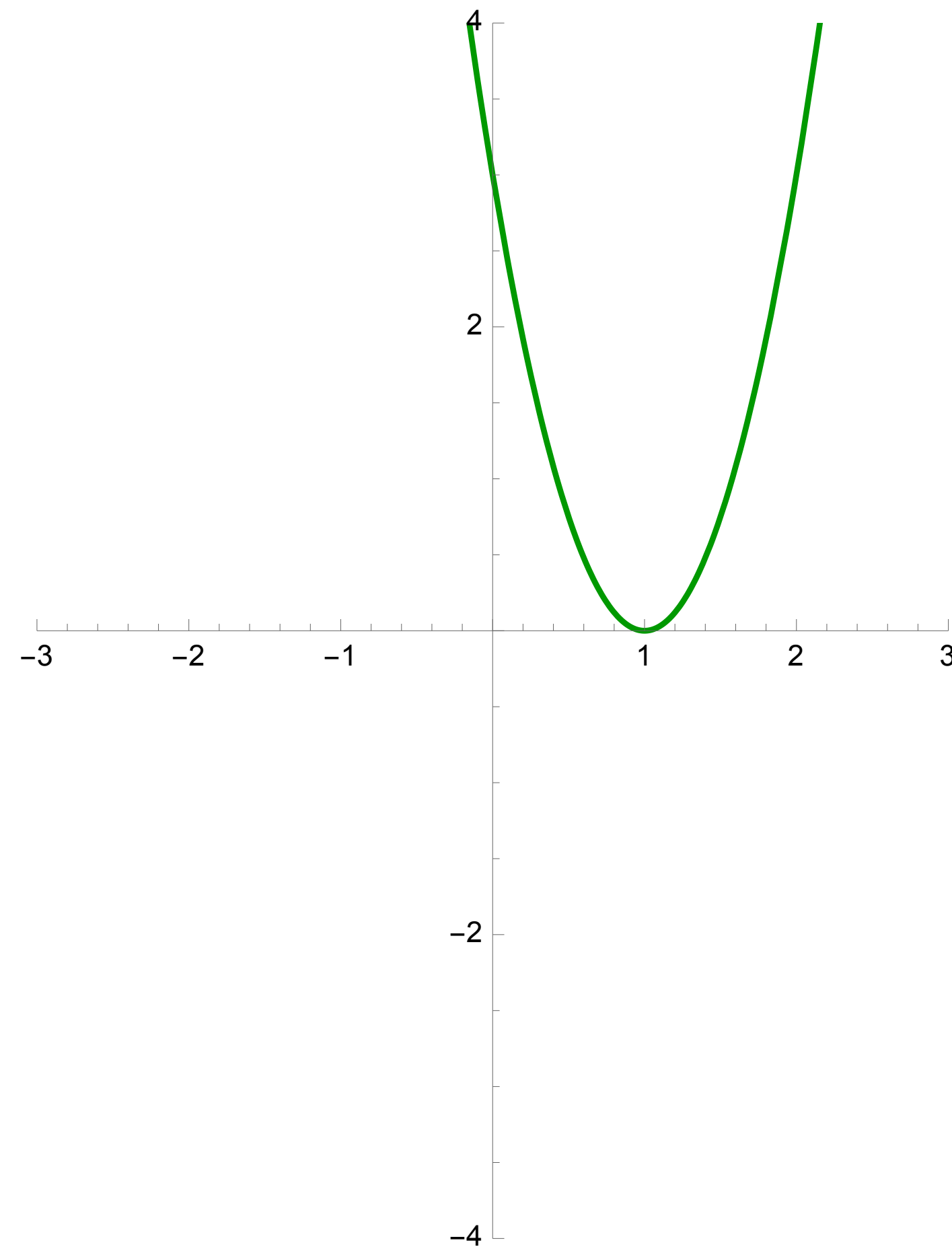
We will talk more about logarithms in the future. For now, just know that its graph has a “vertical asymptote” at $x = 0$ (while the square root graph does not).

From there, you can scale or move graphs:

$$y = x^2$$



$$y = 3(x - 1)^2$$



$$y = x^2 - 2$$

