

Some of the functions you should know how to graph

MATH 131: Calculus II

You should be comfortable graphing the following functions and transformations of these graphs. Many of these functions are graphed in Section 1.2 and there is also an insert at the back of your text that lists many of them. Also see Section 1.2 for reminders of how to shift or scale graphs, particularly helpful may be the figures on pages 20-21.

$$y = x^n \text{ for } 1 \leq n \leq 5, \text{ where } n \text{ is a natural number}$$

$$x = y^n \text{ for } 1 \leq n \leq 5, \text{ where } n \text{ is a natural number}$$

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

$$y = \frac{1}{x^2}$$

$$y = |x|$$

$$y = \sqrt{x}$$

$$y = \sqrt[3]{x}$$

$$y = \ln x$$

$$y = e^x$$

$$y = \sin x$$

$$y = \cos x$$

$$y = \tan x$$

$$y = \sec x$$

$$y = \arctan x$$

$$y = \arcsin x$$