Math 122: Parent Function Repertoire

$$f(x) = x$$

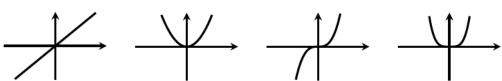
$$f(x) = x^2$$

$$f(x) = x^{3}$$

$$f(x) = x$$
  $f(x) = x^2$   $f(x) = x^3$   $f(x) = x^4$ 

$$\rightarrow$$

$$\longrightarrow \hspace{-1em} \longrightarrow$$



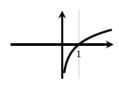
$$f(x) = e^x$$

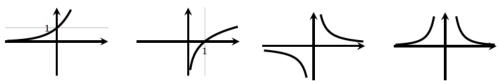
$$f(x) = \ln(x)$$

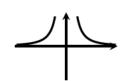
$$f(x) = \frac{1}{x}$$

$$f(x) = e^x$$
  $f(x) = \ln(x)$   $f(x) = \frac{1}{x}$   $f(x) = \frac{1}{x^2}$ 









$$f(x) = |x|$$

$$f(x) = \sqrt{x}$$

$$f(x) = |x|$$
  $f(x) = \sqrt{x}$   $f(x) = \sqrt[3]{x}$ 

