Lesson Goal:

KNOWING the important properties and features of common parent graphs and their appearance.

Lesson Details:

- Use the given template, found below and on Mr. Santowski's HL Math page, for each parent graph.
- Draw/generate precise graphs with all important features labelled.
- Record accurate information about each graph using correct notation.
- Parent Functions:

  ○ $y = x$ $y = |x|$

  ○ $y = x^2$ $y = \sqrt{x}$ $y = x^3$ $y = \sqrt[3]{x} = x^{\frac{1}{3}}$

  ○ $y = \dfrac{1}{x}$ $y = \dfrac{1}{x^2}$

  ○ $y = \ln(x)$ $y = e^x$ $y = \lceil x \rceil$ $y = \dfrac{1}{1+e^{-x}}$
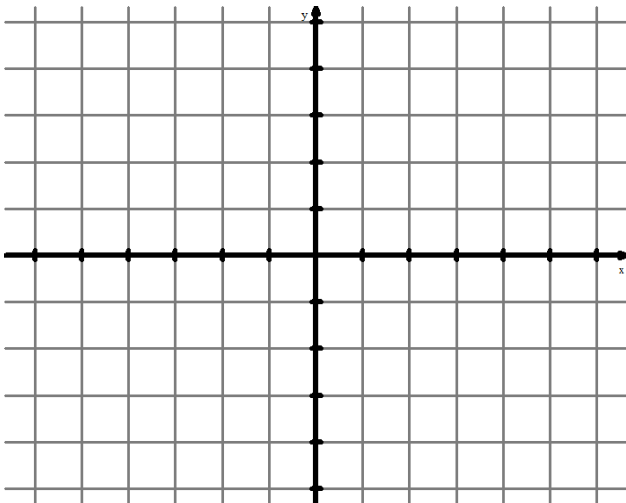
  ○ $y = \sin(x)$ $y = \cos(x)$ $y = \tan(x)$

  ○ $y = \csc(x)$ $y = \sec(x)$ $y = \cot(x)$

f(x) =	Parent Function:
	Domain:
	Range:
	Continuous on:
	Increasing on:
	Decreasing on:
	Symmetry:
	Extrema:
	Asymptotes:
	End Behaviour: