

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:

○ $y = x$

$y = |x|$

○ $y = x^2$

$y = \sqrt{x}$

$y = x^3$

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

○ $y = \frac{1}{x}$

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

○ $y = \ln(x)$

$y = e^x$

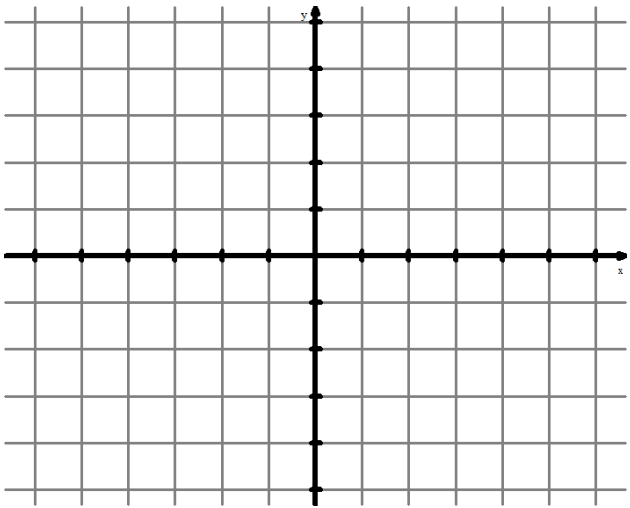
$y = \lceil x \rceil$

$y = \frac{1}{1+e^{-x}}$

○ $y = \sin(x)$

$y = \cos(x)$

$y = \tan(x)$

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