

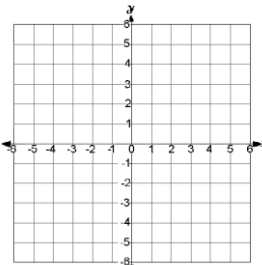
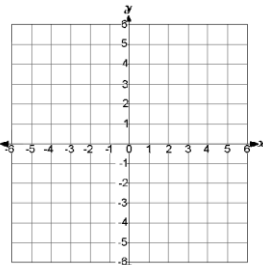
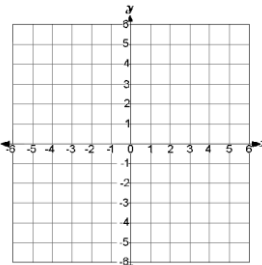
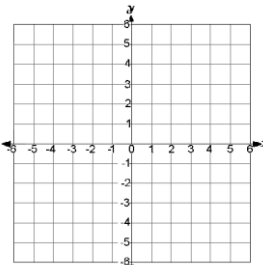
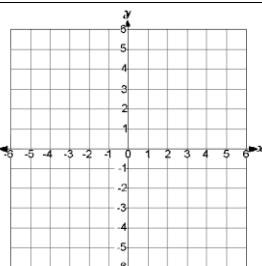
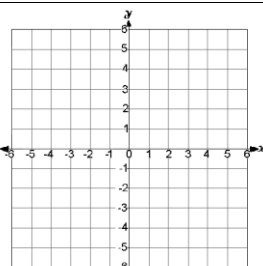
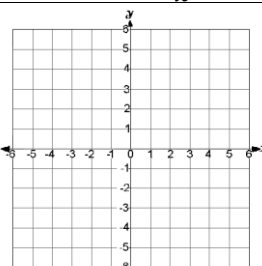
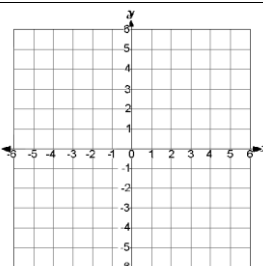
## SECTION 1.1: PARENT FUNCTIONS & TRANSFORMATIONS

Homework: \_\_\_\_\_

### Learning Targets:

- 1a. Understanding of how to graph and write functions given transformations performed on parent functions.

Parent Functions: All functions belong to family of functions. The most \_\_\_\_\_ function is the parent.

<b>Constant</b>	<b>Linear</b>	<b>Absolute Value</b>	<b>Quadratic</b>
$f(x) = 1$	$f(x) = x$	$f(x) =  x $	$f(x) = x^2$
			
Domain:	Domain:	Domain:	Domain:
Range:	Range:	Range:	Range:
<b>Square Root</b>	<b>Cubic</b>	<b>Reciprocal</b>	<b>Exponential</b>
$f(x) = \sqrt{x}$	$f(x) = x^3$	$f(x) = \frac{1}{x}$	$f(x) = b^x$
			
Domain:	Domain:	Domain:	Domain:
Range:	Range:	Range:	Range:

### Transformations that can happen to a parent graph

Translation

Reflection

Shrink

Stretch