
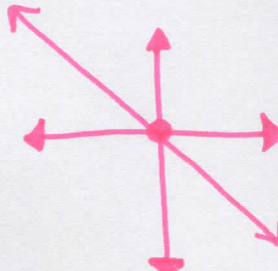
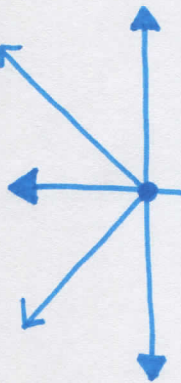
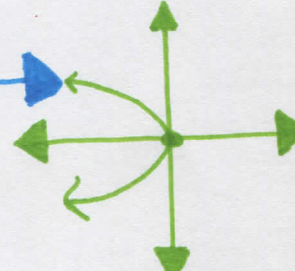


Lesson Title **1.1 Parent Functions**

Date \_\_\_\_\_

Parent Functions	Main New Concept
<p>Constant: <math>y = c</math> ("c" can be any #)                      If <math>c = 1 \Rightarrow</math> </p> <p>Linear: <math>y = x</math> </p> <p>Absolute Value: <math>y =  x </math> </p> <p>Quadratic: <math>y = x^2</math> </p>	<p>Domain = all x-values <math>\rightarrow</math></p> <p>Range = all y-values <math>\leftarrow</math></p> <p><math>\leq</math> <math>\geq</math> <math>&lt;</math> <math>&gt;</math> <math>[-</math> <math>]</math> <math>(</math> <math>)</math> <math>\bullet</math> <math>\circ</math></p> <p><math>(-\infty, \infty)</math> all real #'s</p> <p><b>Examples</b></p> <p><b>Task 1</b>                      Constant  <math>y = 2</math>                      D: <math>(-\infty, \infty)</math>                      R: <math>[2]</math></p> <p><b>Task 2</b>                      linear  <math>y = x</math>                      D: <math>(-\infty, \infty)</math>                      R: <math>(-\infty, \infty)</math></p> <p><b>Task 3</b>                      Abs. Value  <math>y =  x </math>                      D: <math>(-\infty, \infty)</math>                      R: <math>[0, \infty)</math></p> <p><b>Task 4</b>                      Quadratic  <math>y = x^2</math>                      D: <math>(-\infty, \infty)</math>                      R: <math>[0, \infty)</math></p> <p><b>Task 5</b>                      Absolute Value                      shifted <math>\leftarrow 3u</math>  <math>\downarrow 4u</math></p> <p><b>Task 6</b>                      Quadratic                      shifted <math>\rightarrow 1u</math>  <math>\downarrow 3u</math></p>

Still need help with: