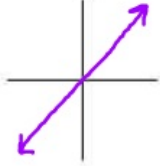


Name: _____
 Period: _____

Warm-up: after Parent Graphs worksheet

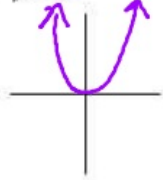
Sketch each of the parent graphs

a) $y = x$



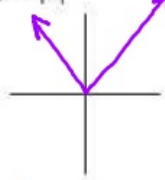
D: \mathbb{R}
 R: \mathbb{R}

b) $y = x^2$



D: \mathbb{R}
 R: $y \geq 0$

c) $y = |x|$



D: \mathbb{R}
 R: $y \geq 0$

List the transformations and sketch each graph. Determine the domain and range.

Draw the parent function with dotted lines on each graph.

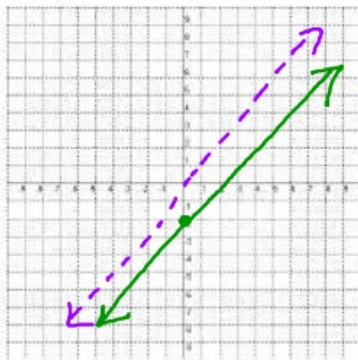
1. $y = x - 2$

Parent: $y = x$

Vertical Shift: 2 U D

Domain: \mathbb{R}

Range: \mathbb{R}



2. $y = (x + 1)^2$

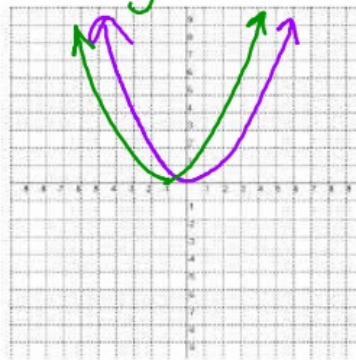
Parent: $y = x^2$

Horizontal Shift: 1 L R

Vertical Shift: 0 U D

Domain: \mathbb{R}

Range: $y \geq 0$



3. $y = |x| - 5$

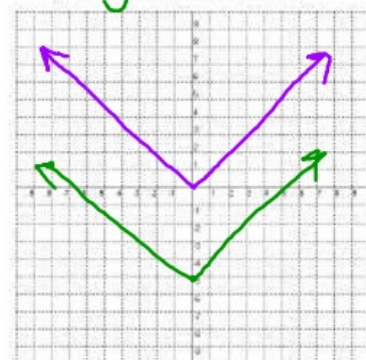
Parent: $y = |x|$

Horizontal Shift: 0 L R

Vertical Shift: 5 U D

Domain: \mathbb{R}

Range: $y \geq -5$



4. $y = |x - 2| - 3$

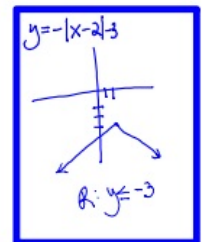
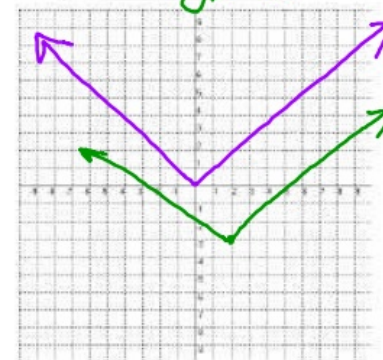
Parent: $y = |x|$

Horizontal Shift: 2 L R

Vertical Shift: 3 U D

Domain: \mathbb{R}

Range: $y \geq -3$

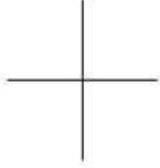


Name: _____
Period: _____

Warm-up: *after* Parent Graphs worksheet

Sketch each of the parent graphs

a) $y = x$



D: _____
R: _____

b) $y = x^2$



D: _____
R: _____

c) $y = |x|$



D: _____
R: _____

List the transformations and sketch each graph. Determine the domain and range. Draw the parent function with dotted lines on each graph.

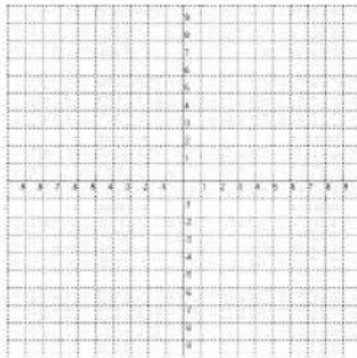
1. $y = x - 2$

Parent: _____

Vertical Shift: ___ U D

Domain: _____

Range: _____



2. $y = (x + 1)^2$

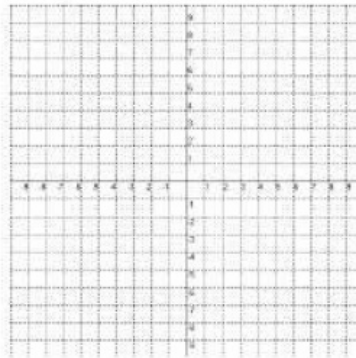
Parent: _____

Horizontal Shift: ___ L R

Vertical Shift: ___ U D

Domain: _____

Range: _____



3. $y = |x| - 5$

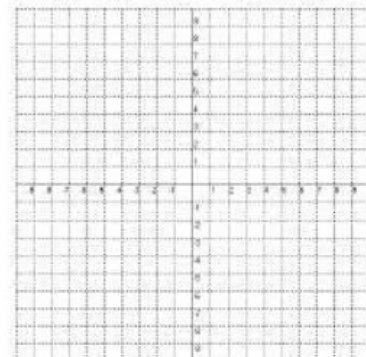
Parent: _____

Horizontal Shift: ___ L R

Vertical Shift: ___ U D

Domain: _____

Range: _____



4. $y = |x - 2| - 3$

Parent: _____

Horizontal Shift: ___ L R

Vertical Shift: ___ U D

Domain: _____

Range: _____

