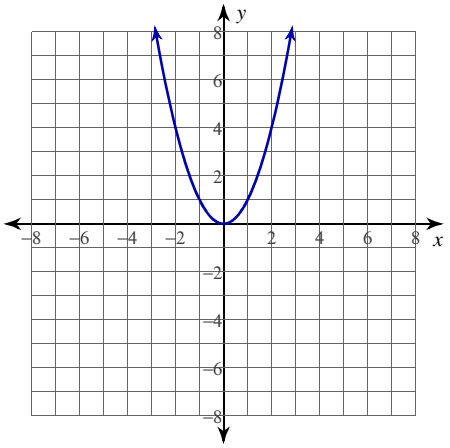
Secondary Math 2 Name_____ ID: 1

Transformation Calendar Math Quiz

Date_____ Period____

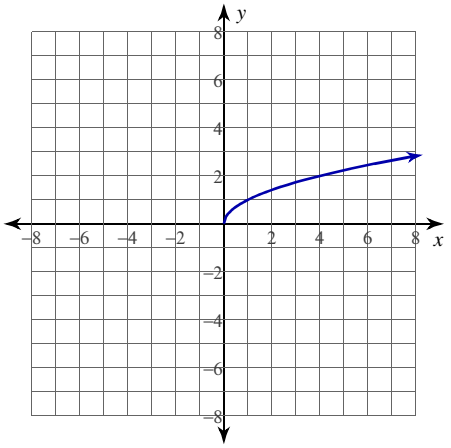
Which parent function does the graph represent?

1)



A) Linear
B) Quadratic
C) Absolute Value
D) Square Root

2)



A) Step
B) Cube Root
C) Piece-Wise
D) Square Root

How did the function transform?

3) $y = 3(x-4)^2 - 3$

A) Left 4, Down 3, Stretch 3
B) Left 3, Down 4, Stretch 3
C) Right 4, Up 3, Stretch 3
D) Right 4, Down 3, Stretch 3

4) $y = -|x+2| + 5$

A) Reflected over x-axis, Left 2, Down 5
B) Reflected over x-axis, Left 5, Up 2
C) Reflected over y-axis, Right 2, Down 5
D) Reflected over x-axis, Left 2, Up 5

Write an equation given the parent function and the transformations.

5) Parent Function: $y = |x|$
Shift Left 4
Shift Up 3
Reflect over x-axis

A) $y = 3|x+4|$
B) $y = |x| + 3$
C) $y = -|x+4| + 3$
D) $y = |x+4| + 3$

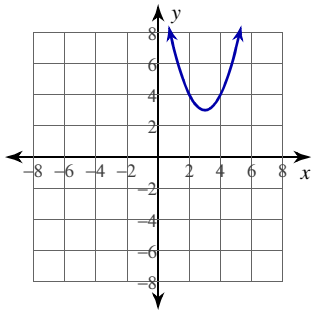
6) Parent Function: $y = x^2$
Shift right 3
Shift down 1

A) $y = (x+3)^2 + 1$
B) $y = |x-3| - 1$
C) $y = (x-3)^2 - 1$
D) $y = (x-1)^2 - 3$

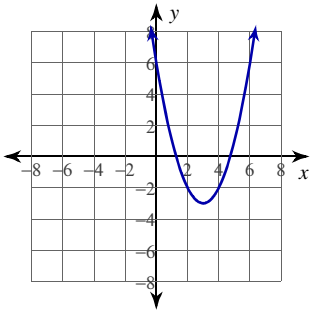
Given the equation which graph matches the transformation?

7) $y = -(x-3)^2 + 3$

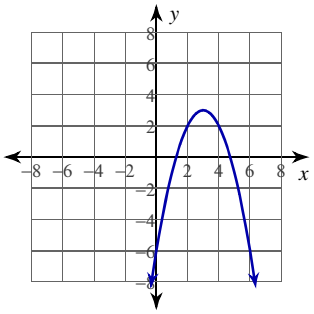
A)



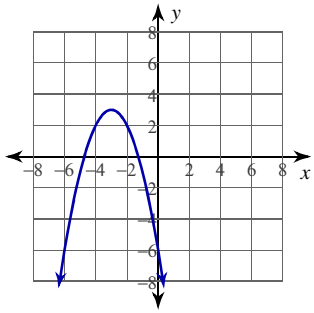
B)



C)

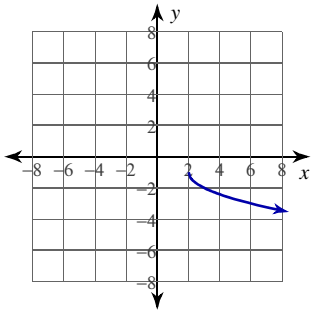


D)

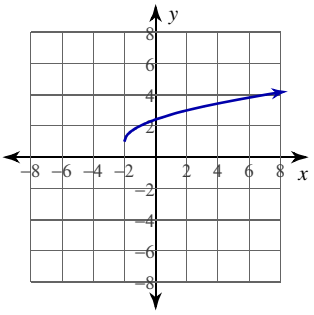


8) $y = \sqrt{x-2} - 1$

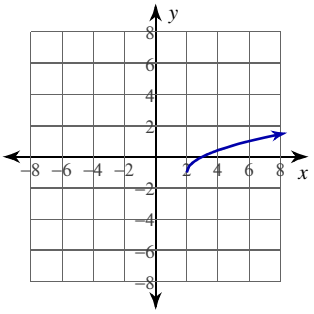
A)



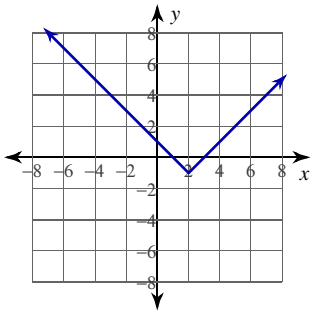
B)



C)

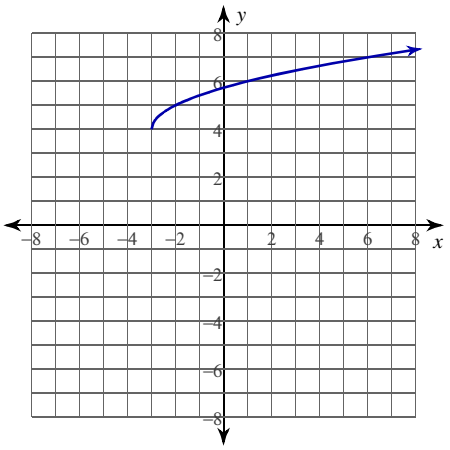


D)



Use the graph to determine the correct equation.

9)



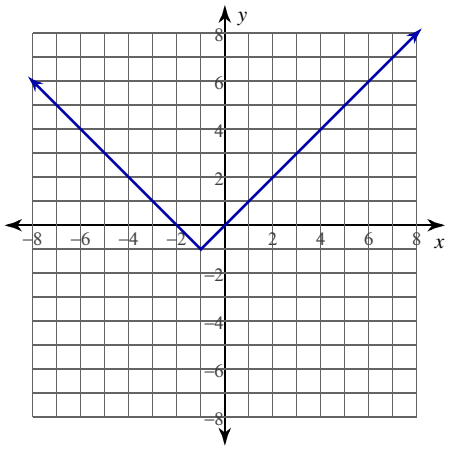
A) $y = -\sqrt{x+3} + 4$

B) $y = \sqrt{x-4} - 3$

C) $y = \sqrt{x+3} + 4$

D) $y = \sqrt{x-2} + 3$

10)



A) $y = -\left|x-1\right| - 1$

B) $y = \left|x\right| - 1$

C) $y = \left|x+1\right| - 1$

D) $y = \left|x+1\right|$