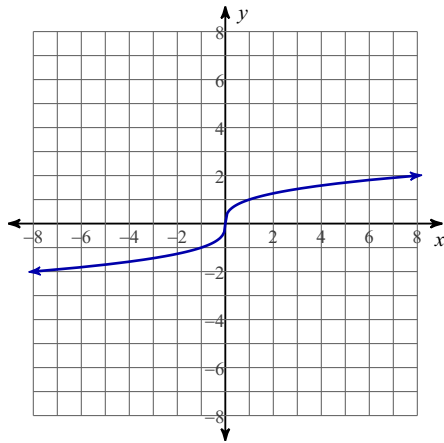


Transformation Calendar Math Review

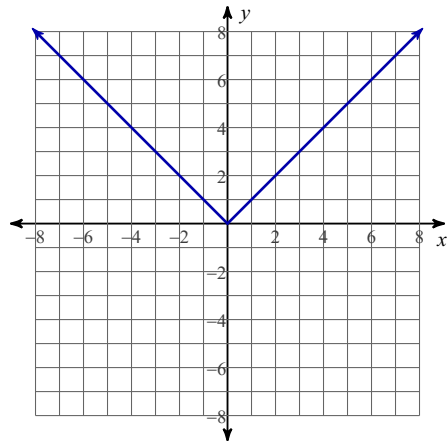
Which parent function does the graph represent?

1)



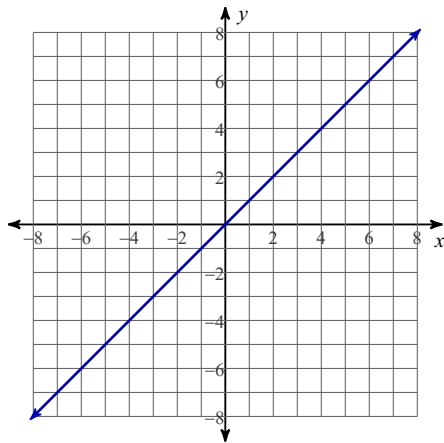
- A) Quadratic
- B) Cube Root
- C) Linear
- D) Absolute Value

2)

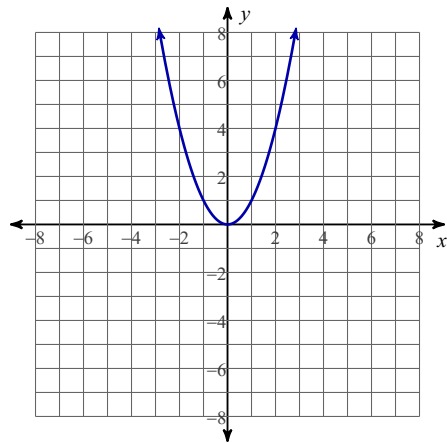


- A) Step
- B) Piece-Wise
- C) Absolute Value
- D) Cube Root

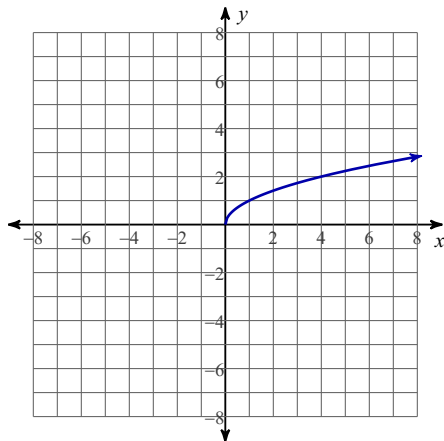
3)



4)

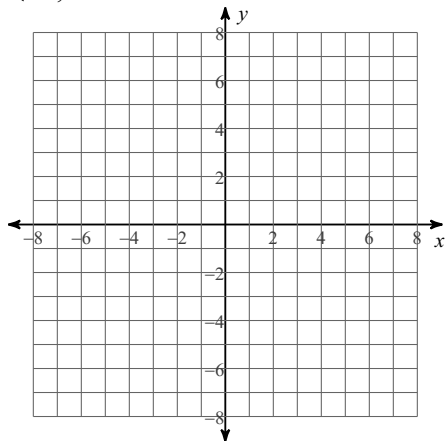


5)

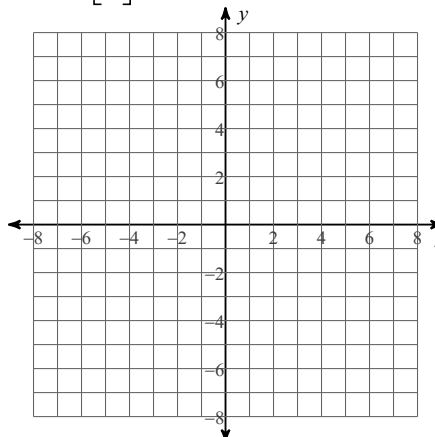


Graph the following parent functions.

$$6) \begin{cases} x + 1, & x < 0 \\ x^2, & x \geq 0 \end{cases}$$



$$7) f(x) = \lfloor x \rfloor$$



How did the function transform?

$$8) y = -\frac{1}{2}|x + 2| + 5$$

$$9) y = -3\sqrt{x - 1} + 2$$

$$10) f(x) = -\frac{4}{3}(x - 2)^2$$

$$11) f(x) = (x + 4)^3$$

Write an equation given the parent function and the transformations.

$$12) \text{ Parent Function: } y = \sqrt{x}$$

Stretch $\frac{5}{4}$

Shift Up 9

Reflect over x-axis

$$13) \text{ Parent Function: } y = x^2$$

Shrink $\frac{2}{3}$

Shift left 1

Shift down 1

$$14) \text{ Parent Function: } y = x^3$$

Shift right 5

Shift up $\frac{1}{3}$

Reflect over x-axis

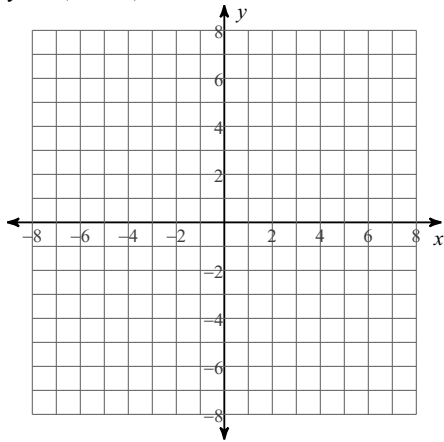
$$15) \text{ Parent Function: } y = |x|$$

Shrink $\frac{5}{6}$

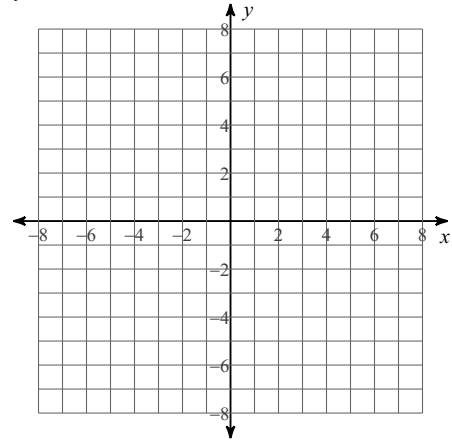
Reflect over x-axis

Graph the equation given.

16) $y = (x + 2)^2 + 4$

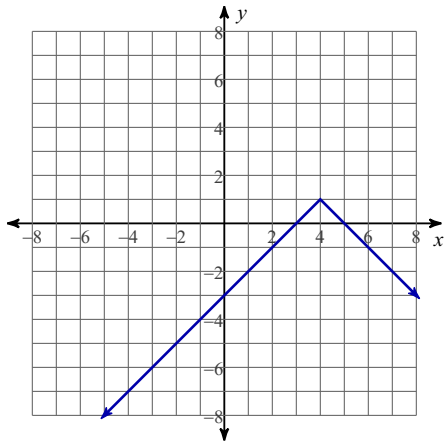


17) $y = -\sqrt{x - 3} + 1$



Write the equation for the graph given.

18)



19)

