

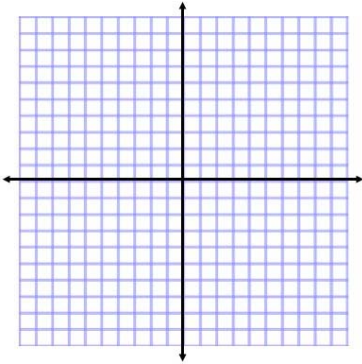


**Give the name of the parent function and describe the transformation represented.**

1.  $g(x) = x^2 - 1$

Parent: \_\_\_\_\_

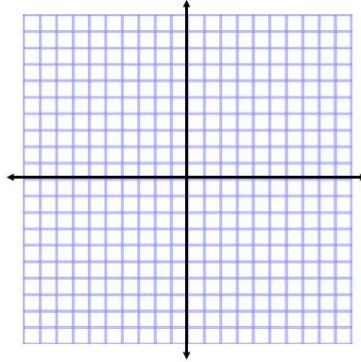
Transformations: \_\_\_\_\_



2.  $f(x) = 2|x - 1|$

Parent: \_\_\_\_\_

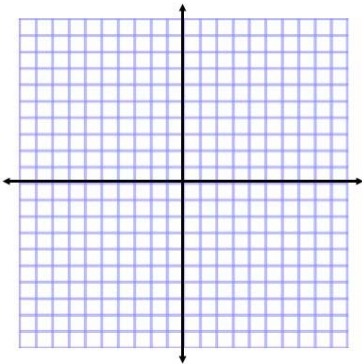
Transformations: \_\_\_\_\_



3.  $h(x) = \sqrt{x - 3} + 2$

Parent: \_\_\_\_\_

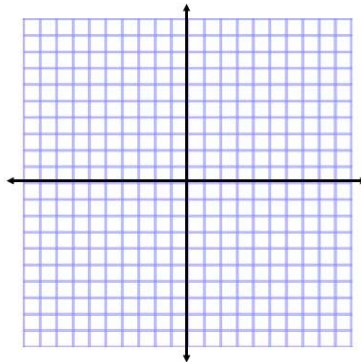
Transformations: \_\_\_\_\_



4.  $g(x) = -2(x + 1)^2 + 3$

Parent: \_\_\_\_\_

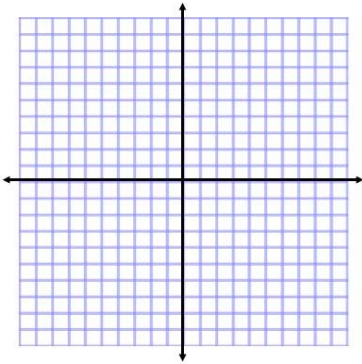
Transformations: \_\_\_\_\_



5.  $g(x) = -3x - 2$

Parent: \_\_\_\_\_

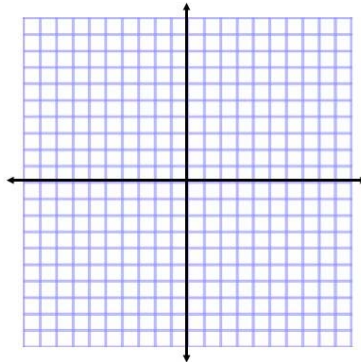
Transformations: \_\_\_\_\_



6.  $f(x) = |x + 5| - 2$

Parent: \_\_\_\_\_

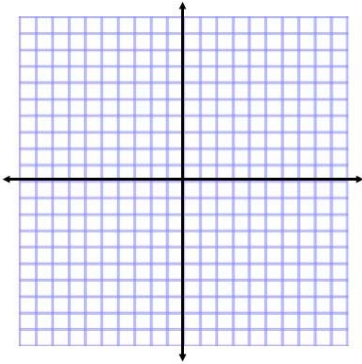
Transformations: \_\_\_\_\_



7.  $h(x) = -x^2 + 1$

Parent: \_\_\_\_\_

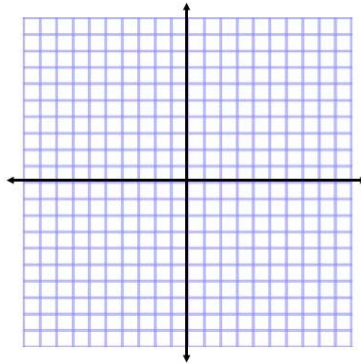
Transformations: \_\_\_\_\_



8.  $h(x) = -|x - 2|$

Parent: \_\_\_\_\_

Transformations: \_\_\_\_\_



**Given the parent function and a description of the transformation, write the equation of the transformed function,  $f(x)$ .**

9. Absolute Value — vertical shift up 5, horizontal shift right 3.

\_\_\_\_\_

10. Linear — vertical stretch/compression of 3, shift up 5

\_\_\_\_\_

11. Quadratic — flipped over the x axis, vertical shift down 3

\_\_\_\_\_

12. Square root — vertical shrink by .5, shift left 4

\_\_\_\_\_

13. Quadratic — vertical stretch by 5, shift left 8, and reflected.

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