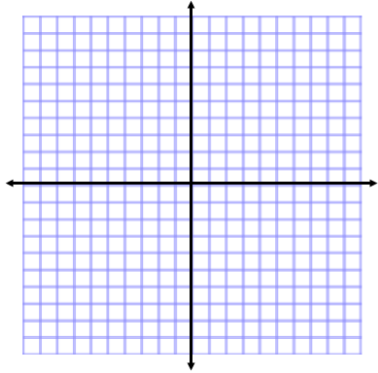


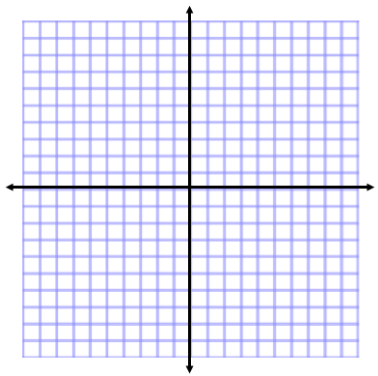
1-7 Give the name of the parent function and describe the transformation represented, then sketch the graph.



1. $g(x) = \frac{1}{x} - 1$

Parent: _____

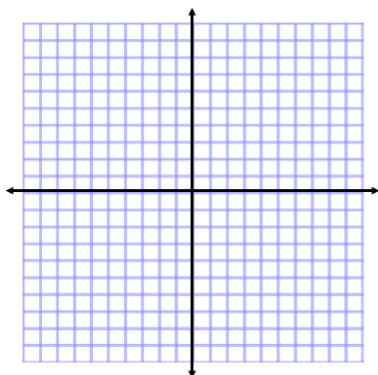
Transformations: _____



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

Parent: _____

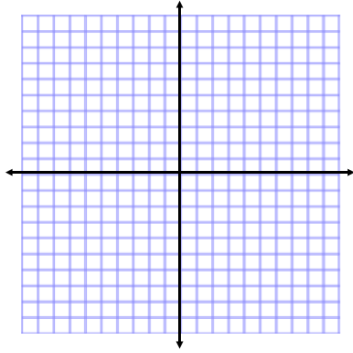
Transformations: _____



3. $h(x) = -3^x - 2$

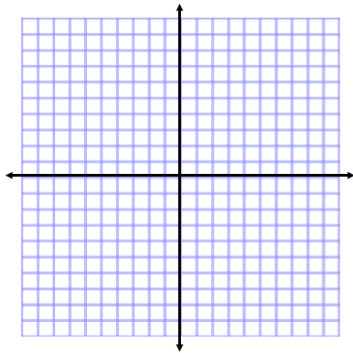
Parent: _____

Transformations: _____



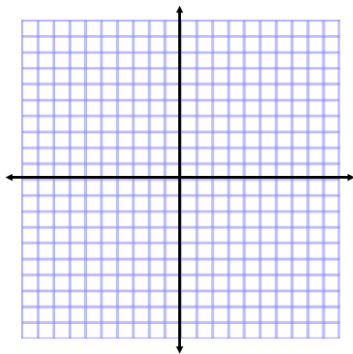
4. $g(x) = -2(x+1)^2 + 3$ Parent: _____

Transformations: _____



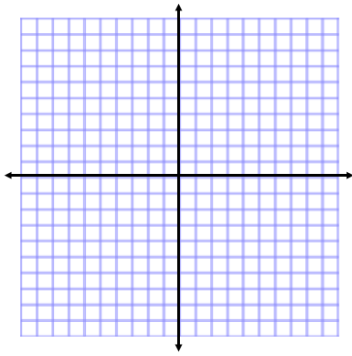
5. $g(x) = \sqrt{x} - 2$ Parent: _____

Transformations: _____



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

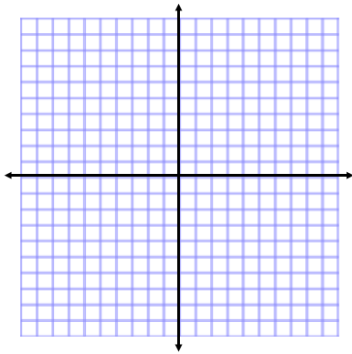
Transformations: _____



7. $h(x) = x^3 + 4$

Parent: _____

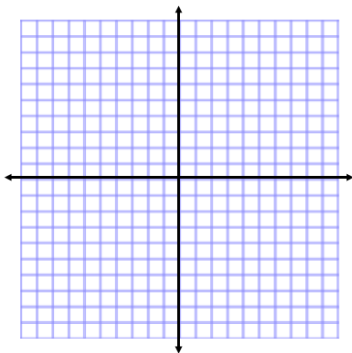
Transformations: _____



8. $h(x) = -x^3$

Parent: _____

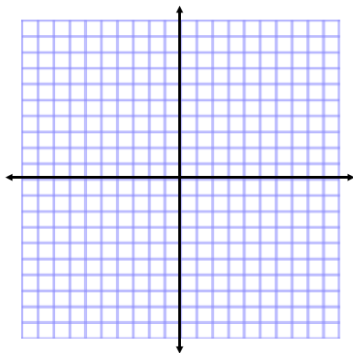
Transformations: _____



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

Parent: _____

Transformations: _____



10. $f(x) = 3(x+3)^2$ Parent: _____

Transformations: _____

#11 - 16 Given the parent function and a description of the transformation, write the equation of the transformed function, $f(x)$.

11. Absolute value - vertical shift up 5, horizontal shift right 3. _____

12. Rational - vertical shift down 3 _____

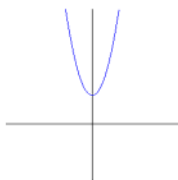
13. Cubic - flipped over the x axis, vertical shift down 2 _____

14. Exponential ($y = 2^x$) - vertical stretch by 8 _____

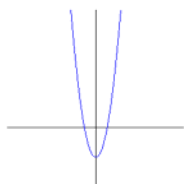
15. Quadratic - vertical stretch by 5, horizontal shift left 8. _____

16. Which graph best represents the function $f(x) = 2x^2 - 2$?

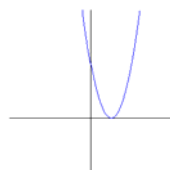
a.



b.



c.



d.

