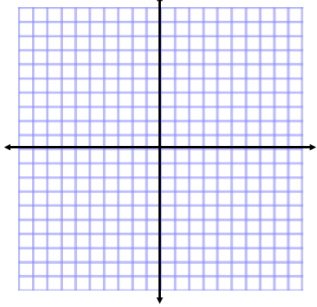
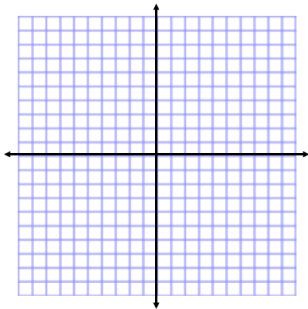


Name the parent function, describe the transformation represented, AND sketch the graph.



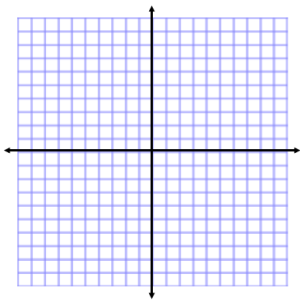
1. $g(x) = x^3 + 1$ Parent: _____

Transformations: _____



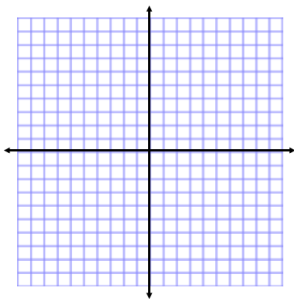
2. $f(x) = 3|x - 2|$ Parent: _____

Transformations: _____



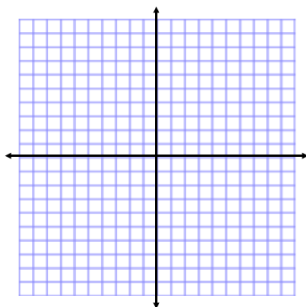
3. $h(x) = 3^x + 1$ Parent: _____

Transformations: _____



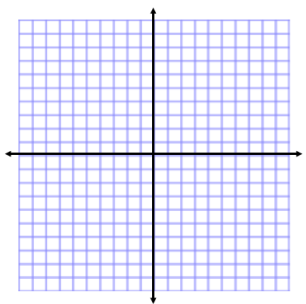
4. $g(x) = -(x - 3)^2 + 2$ Parent: _____

Transformations: _____



5. $f(x) = \sqrt{x-1} + 4$ Parent: _____

Transformations: _____



6. $f(x) = \frac{1}{x} - 3$ Parent: _____

Transformations: _____

#7-10: Given the parent function and a description of the transformation, write the equation of the transformed function, f(x).

7. Rational - vertical shift up 5 _____

8. Absolute Value - flipped over the x axis, horizontal shift left 3, vertical shift up 2

9. Square Root – vertical shift down 3 _____

10. Quadratic - vertical stretch by 2, horizontal shift left 1, vertical shift down 7.
