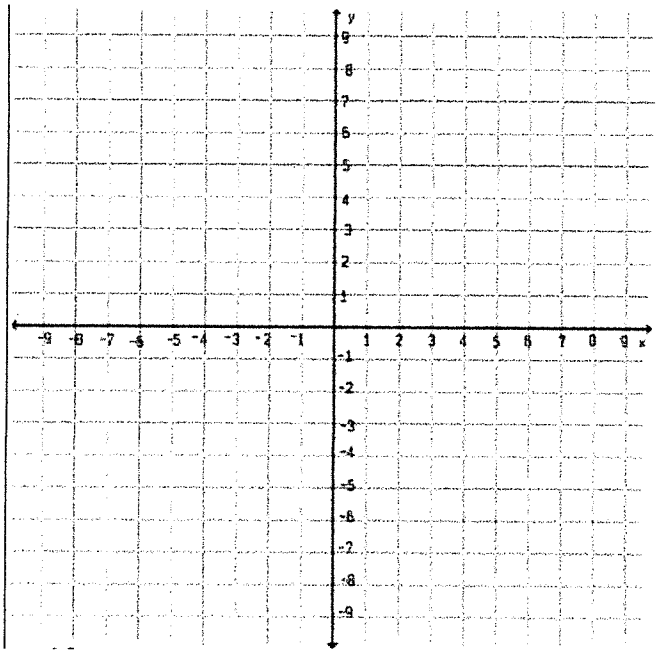
Honors Algebra 2 – Test Review
Tranformations of Functions

Name _____
Date _____ Hour _____

Graph each parent function. Fill in the parent function name and equation. Describe the transformation. Then, on the same graph, graph the transformation.

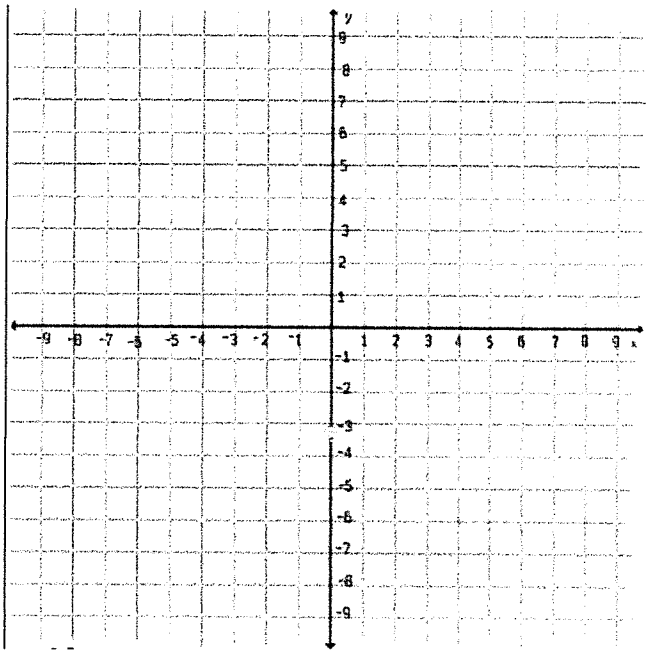
1) $f(x) = (x - 3)^2 + 5$

Parent function
Name: _____
Equation: _____
Transformation: _____



2) $f(x) = |x + 3| - 2$

Parent function
Name: _____
Equation: _____
Transformation: _____



Give the name of the parent function and describe the transformation(s) represented.

3. $g(x) = .3\sqrt{x-4}$ Name _____ Transformation(s) _____

4. $f(x) = \log(x+2) - 1$ Name _____ Transformation(s) _____

5. $h(x) = -|x| + 3$ Name _____ Transformation(s) _____

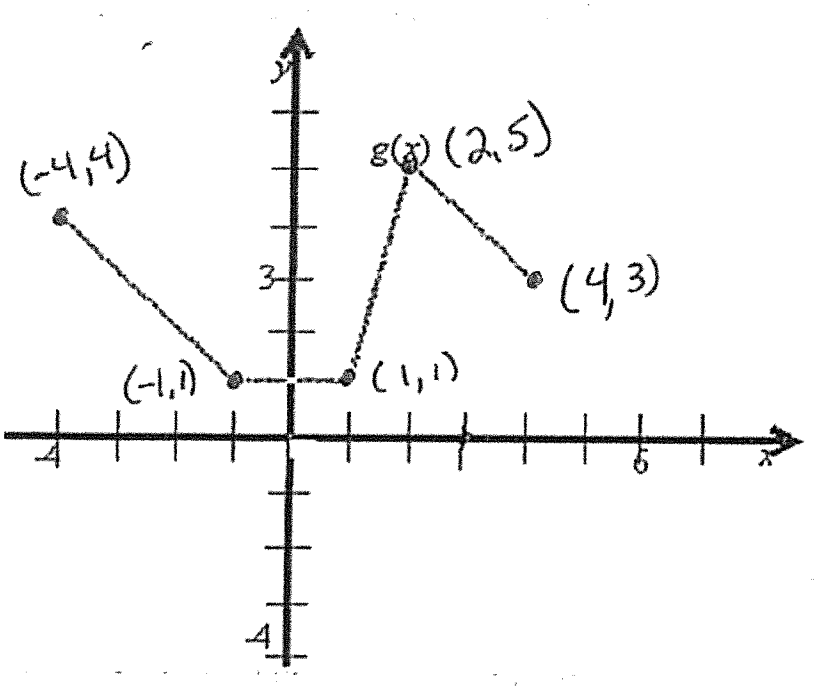
6. $g(x) = \sqrt[3]{x} - 8$ Name _____ Transformation(s) _____

7. $f(x) = 3(x-5)^2$ Name _____ Transformation(s) _____

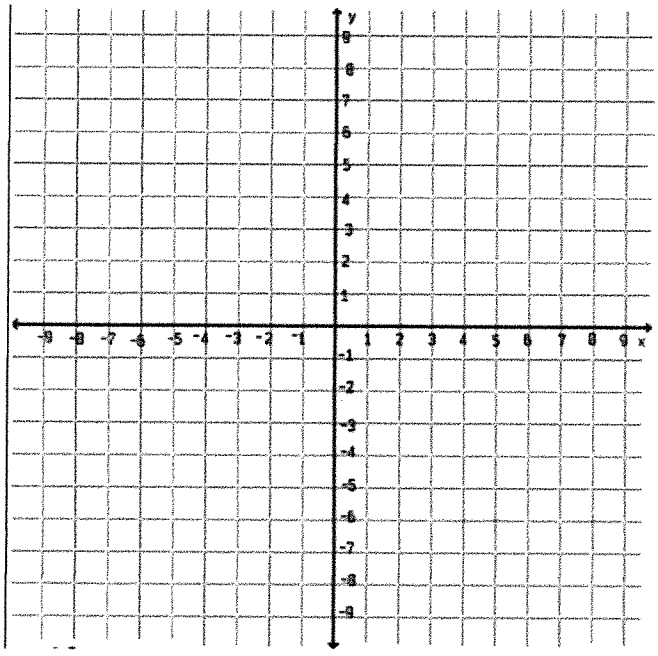
8. $g(x) = \left(\frac{1}{2}\right)^{x-6} - 3$ Name _____ Transformation(s) _____

9. $h(x) = (x+3)^3 + 4$ Name _____ Transformation(s) _____

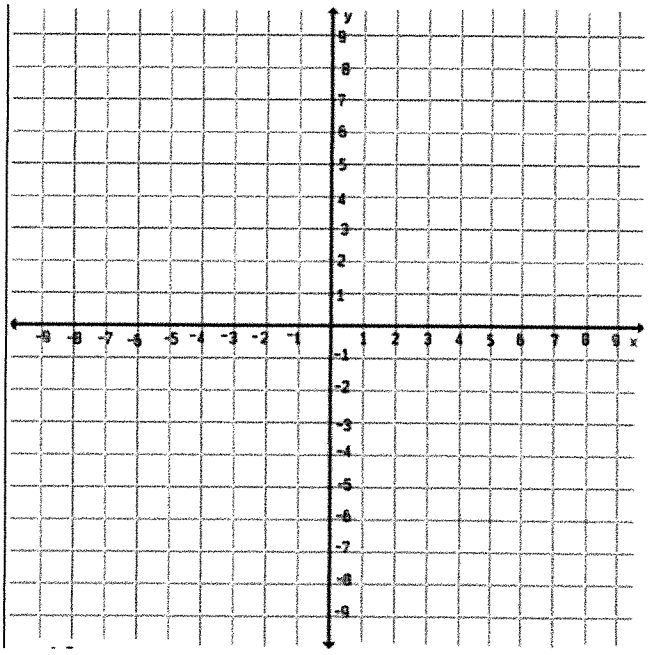
Using the arbitrary function below, describe each transformation and graph the transformed function. Make a table of values for the original function and for each transformation.



10. $y = f(x - 2) + 3$



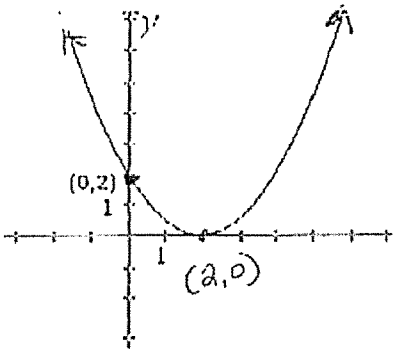
11. $y = -2f(x)$



Describe the transformations, find a, and write an equation for each graph.

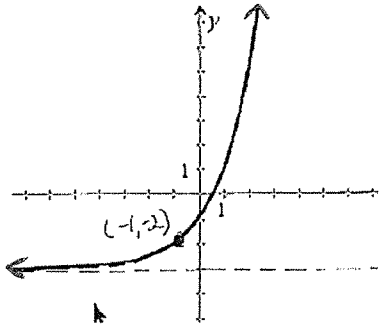
12. Parent
Transformation(s)

Equation



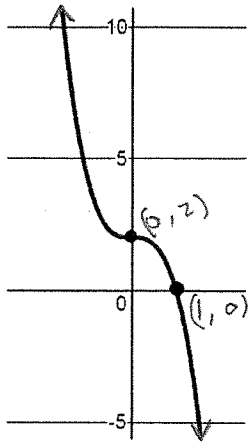
13. Parent
Transformation(s)

Equation



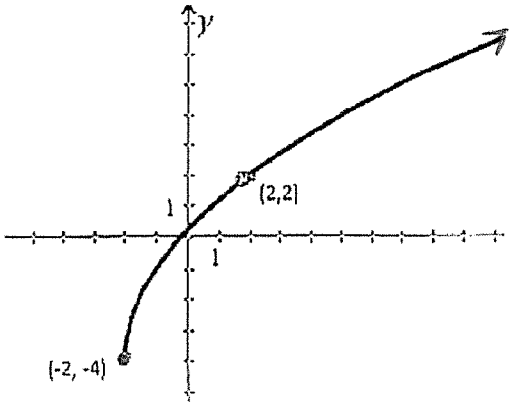
14. Parent
Transformation(s)

Equation



15. Parent
Transformations

Equation



16. Parent
Transformations

Equation