

Math 2- Function Transformation

Name: _____

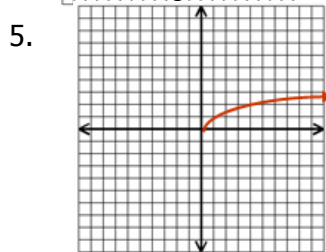
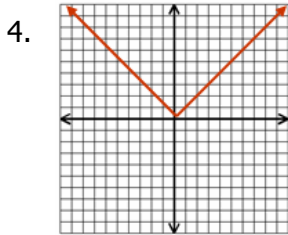
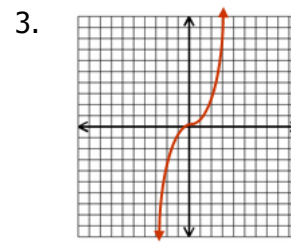
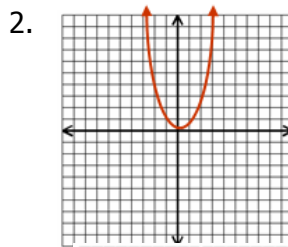
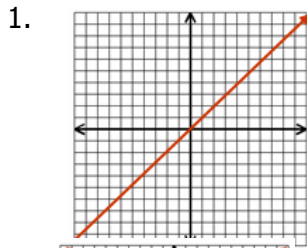
Match the name & equation to the graph.

Names: A) absolute value B) cubic C) linear D) quadratic

E) radical

Equations: F) $y = x$ G) $y = x^2$ H) $y = x^3$ I) $y = |x|$

J) $y = \sqrt{x}$



$$y = a(x-h)^2 + k$$

6) describe the effect of **a** on the graph.

7) describe the effect of **h** on the graph.

8) describe the effect of **k** on the graph.

Identify the parent function name and describe the transformation for each function.

9) $g(x) = 3(x-1)^2 - 6$ Name: _____

Transformation: 1) _____ 2) _____ 3) _____

10) $f(x) = 5(x-2)^3 - 11$ Name: _____

Transformation: 1) _____ 2) _____ 3) _____

11) $h(x) = \frac{2}{3}|x+6|$ Name: _____ Transformation 1) _____ 2) _____

12) $f(x) = x + 6$ Name: _____ Transformation 1) _____

13) What is the effect on the graph of the function $y = x^2 + 2$ when it is changed to $y = x^2 - 3$? _____