

Name _____

8A; Algebra 1

Date _____

Period _____

Parent Function Review

#1-4 Identify the parent function name and describe the transformation for each function.

1. $g(x) = 3(x - 1)^2 - 6$

Parent Function: _____

Transformation: _____

2. $f(x) = 5(x - 2)^3 - 11$

Parent Function: _____

Transformation: _____

3. $h(x) = \frac{2}{3}|x + 6|$

Parent Function: _____

Transformation: _____

4. $f(x) = x + 6$

Parent Function: _____

Transformation: _____

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

#6-11 Name the Parent Function. Describe the transformation. Graph the equation. List the Domain and the Range of the function.

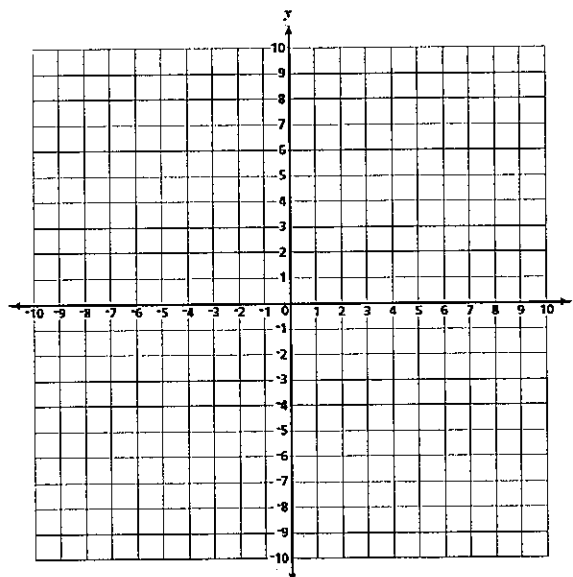
6) $y = (x + 2)^2 - 3$

Parent Function: _____

Transformation: _____

Domain: _____

Range: _____



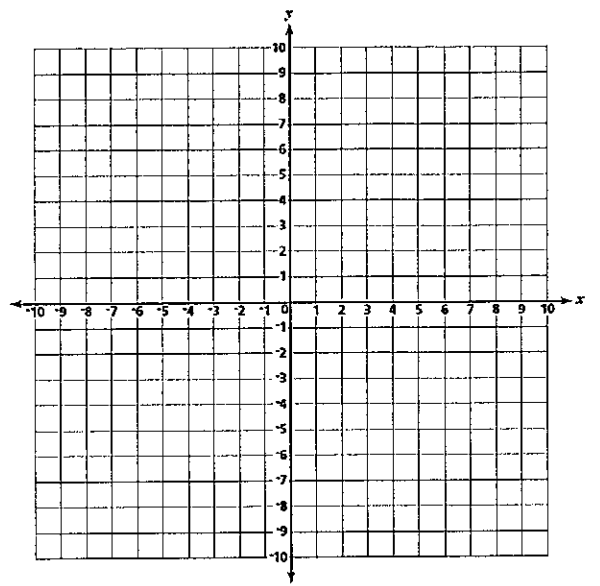
7) $y = -4x + 5$

Parent Function: _____

Transformation: _____

Domain: _____

Range: _____



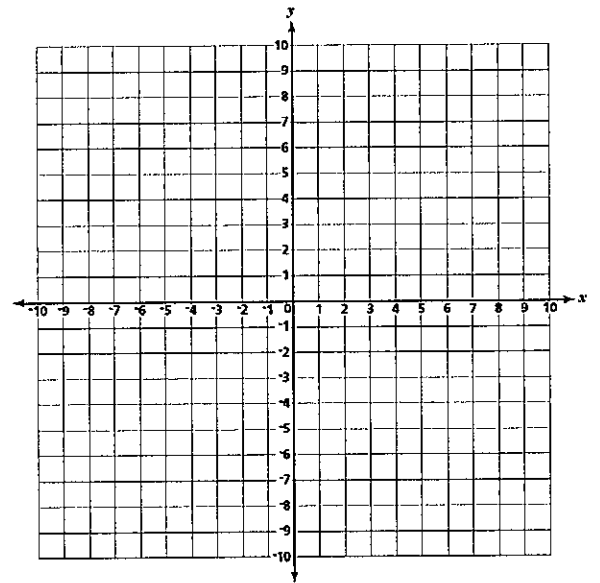
8) $y = 2|x - 3| + 2$

Parent Function: _____

Transformation: _____

Domain: _____

Range: _____



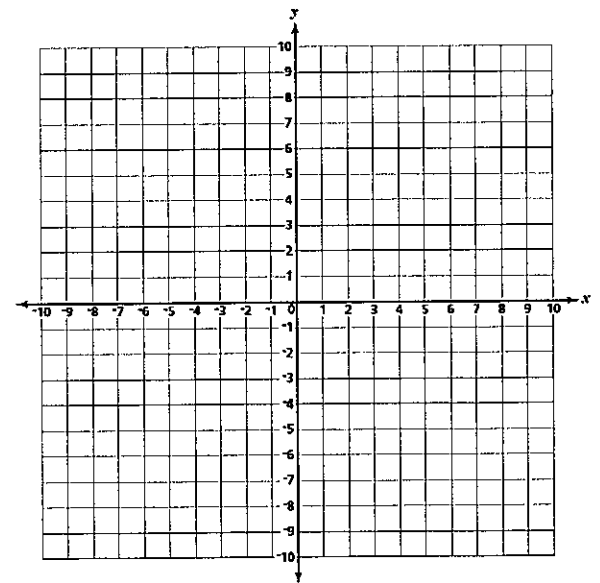
9) $y = \sqrt{x + 5}$

Parent Function: _____

Transformation: _____

Domain: _____

Range: _____



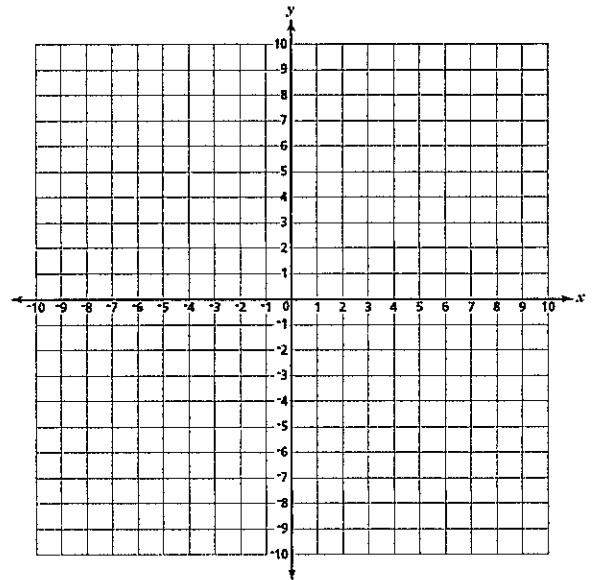
10) $y = (x - 3)^3 + 5$

Parent Function: _____

Transformation: _____

Domain: _____

Range: _____



11) $y = 2^{x-1}$

Parent Function: _____

Transformation: _____

Domain: _____

Range: _____

