

**Algebra 1**  
**Chapter 8 Review**

Name: \_\_\_\_\_  
Period: \_\_\_\_\_

Using the Quadratic parent function, write an equation for the transformations below.

1. left 4, up 10      2. reflect over the  $x$ -axis, right 7, down 3      3. vertical shrink by a factor of  $\frac{1}{3}$ , up 2

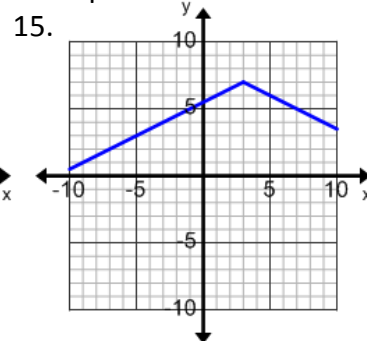
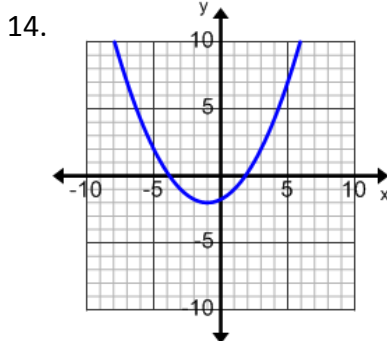
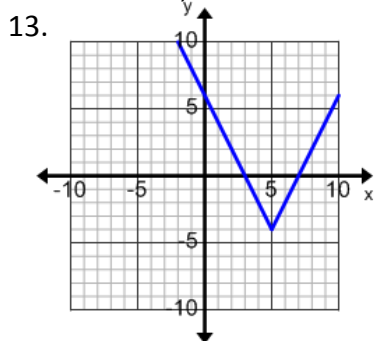
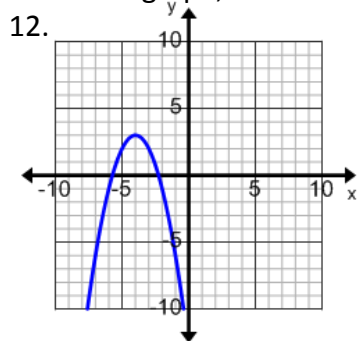
Using the Absolute Value parent function, write an equation or the transformations below.

4. left 18, down 25      5. reflect over  $y$ -axis, vertical stretch by a factor of 5, up 4

Describe the transformations in words.

6.  $y = -|x| + 2$       7.  $y = 6(x-13)^2 - 5$       9.  $y = -\frac{1}{3}(x+2)^2 + 8$   
8.  $-f(x-7) - 3$       10.  $2f(x-5) + 1$       11.  $-3f(x+4) + 11$

Given the graph, name the parent function, describe the transformations and write the new equation.

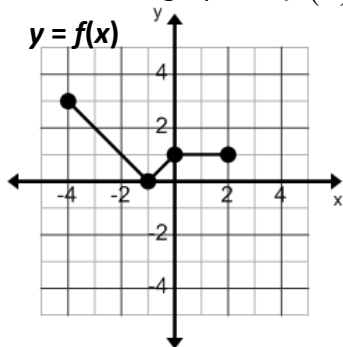


16. Write the domain and range for questions #12-15.

Given the equation, name the parent function and graph the transformed function.

17.  $y = 3|x| - 4$       18.  $y = -(x-2)^2 + 3$       19.  $y = \frac{1}{2}|x+4| - 1$   
20.  $y = -2(x-3)^2 + 2$       21.  $y = -4|x+1| + 5$

Given the graph of  $f(x)$  and the transformation, draw the graph of the transformed function.



22. reflect over the  $x$ -axis, vertical stretch by a factor of 2, right 4

23.  $f(-x) - 2$

24. vertical shrink by a factor of  $\frac{1}{2}$ , left 3, down 5

25.  $-f(x+1) + 3$

26. Given the graph of  $f(x)$  and the transformed graph, describe the transformations.

