

Name: _____

Show work needed to justify your answer. Date: _____

HW # 26: Algebra 1 - Standard 15 - Absolute Value Functions

5 points

Describe the translation in $g(x)$ as it relates to the graph of the parent function.

1. $g(x) = |x| - 5$

2. $g(x) = |x + 6|$

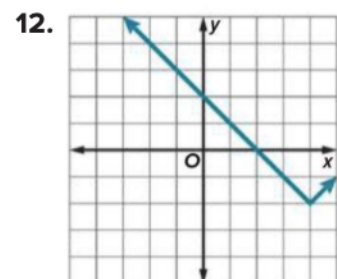
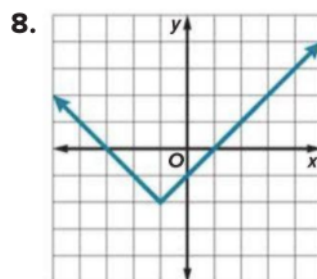
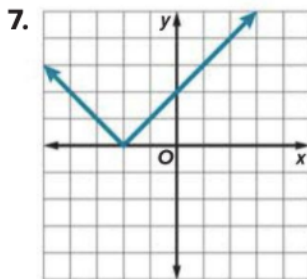
3. $g(x) = |x - 2| + 7$

4. $g(x) = |x + 1| - 3$

5. $g(x) = |x| + 1$

6. $g(x) = |x - 8|$

Use the graph of the function to write its equation.



Describe the dilation in $g(x)$ as it relates to the graph of the parent function.

13. $g(x) = \frac{2}{5}|x|$

16. $g(x) = |3x|$

17. $g(x) = \left|\frac{1}{6}x\right|$

18. $g(x) = \frac{5}{4}|x|$

Describe how the graph of $g(x)$ is related to the graph of the parent function.

19. $g(x) = -3|x|$

20. $g(x) = -|x| - 2$

22. $g(x) = -|x - 7| + 3$

23. $g(x) = |-2x|$