Algebra 2	Name	
WS: Absolute Value Functions	Date	Block

Using the graph of f(x) = |x| as a guide, describe the transformations of each function and identify its domain and range.

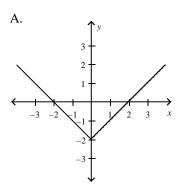
1. g(x) = |x| + 42. g(x) = -2|x - 3|3. g(x) = 3.2|x + 1| - 24.  $g(x) = \frac{1}{2}|x| - 3$ 

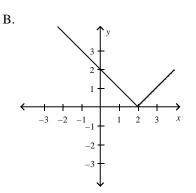
Identify the vertex of the graph of each function.

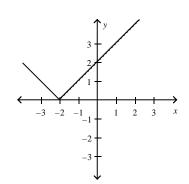
5. f(x) = |x| + 46. f(x) = -2|x - 3|7. f(x) = 3.2|x + 1| - 28.  $f(x) = \frac{1}{2}|x| - 3$ 

## Match the function with its graph.

9. f(x) = |x - 2| 10. g(x) = |x| - 2 11. h(x) = |x + 2|

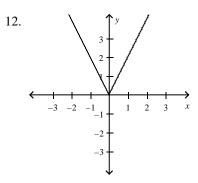






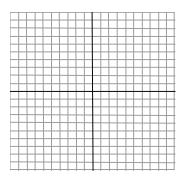
C.

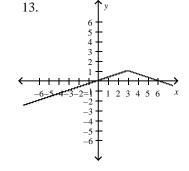
Write an equation for each absolute value function.

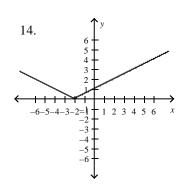


Graph the absolute value function.

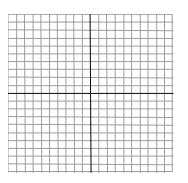
15. f(x) = -2|x-1| + 3







16.  $f(x) = \frac{1}{3}|x| + 2$ 



17. f(x) = |x + 1| - 2

