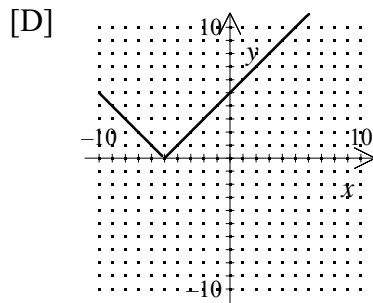
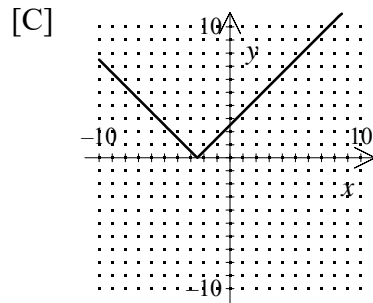
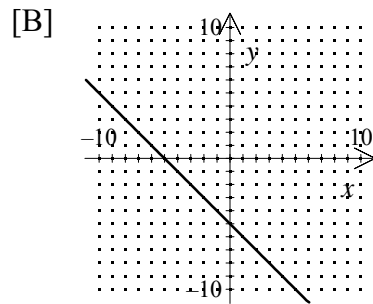
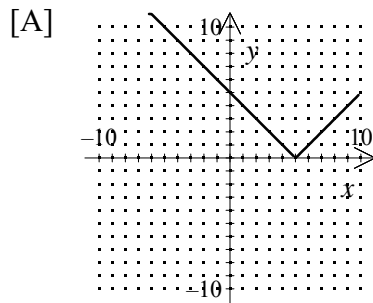


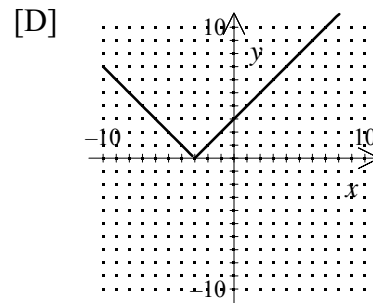
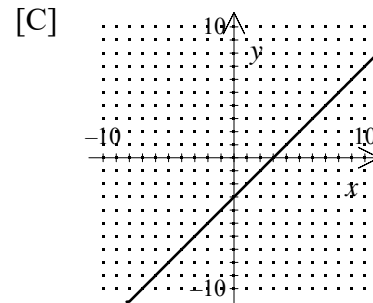
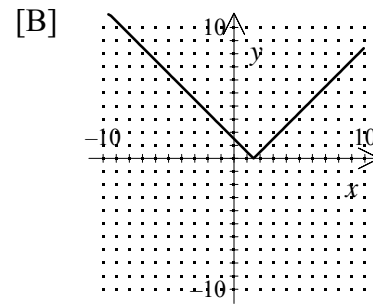
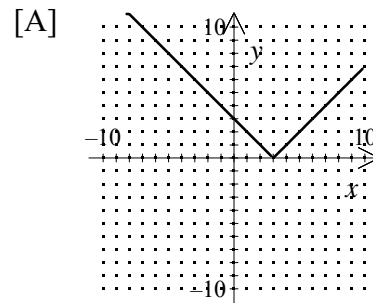
NAME: _____

1. Graph the function $f(x) = |-x-5|$.



[1] _____

2. Graph the function $f(x) = |x-3|$.



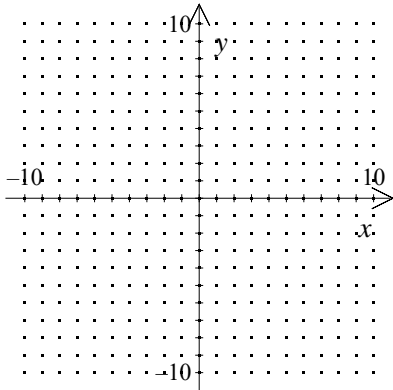
[2] _____

3. Graph the equations $y = x$ and $y = |x|$. Give as many similarities and differences about these two graphs as you can.

[3] _____

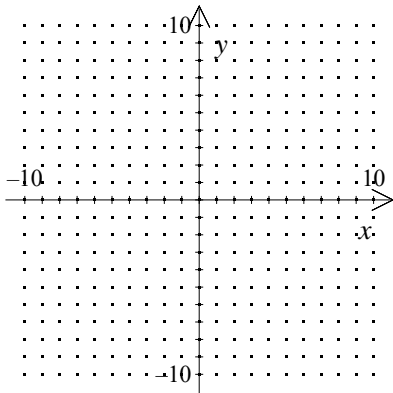
NAME: _____

4. Graph the function $f(x) = |x - 1|$.



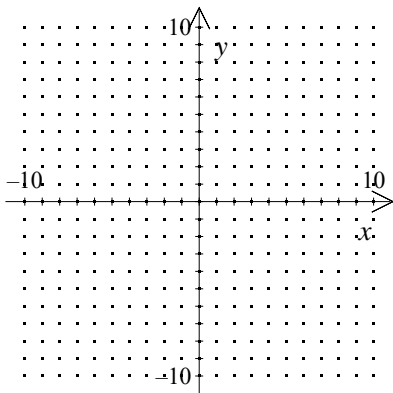
[4] _____

5. Graph the function $f(x) = |x + 2|$.



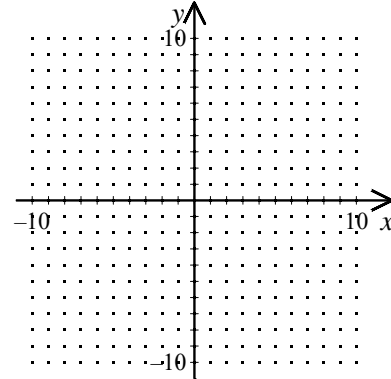
[5] _____

6. Graph the function $f(x) = |-x + 6|$.



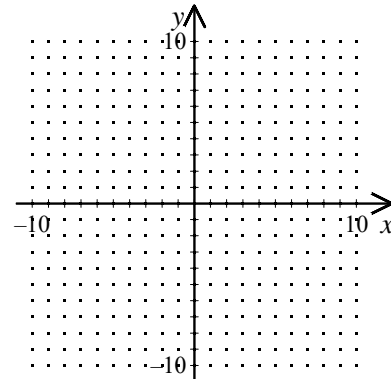
[6] _____

7. Graph the absolute value equation
 $y = |-x + 3|$.



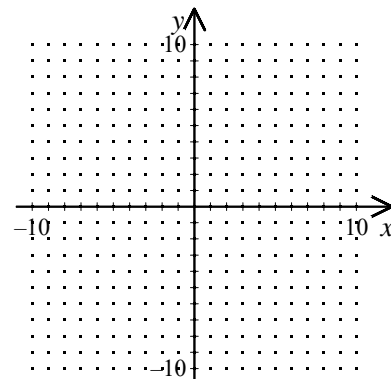
[7] _____

8. Graph the absolute value equation
 $y = |-x - 2|$.



[8] _____

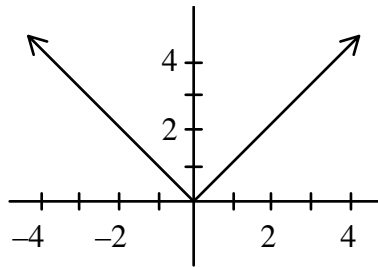
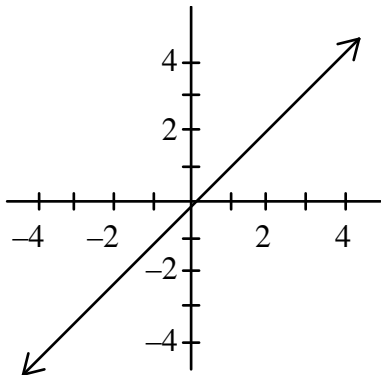
9. Graph the absolute value equation
 $y = |-x - 1|$.



[9] _____

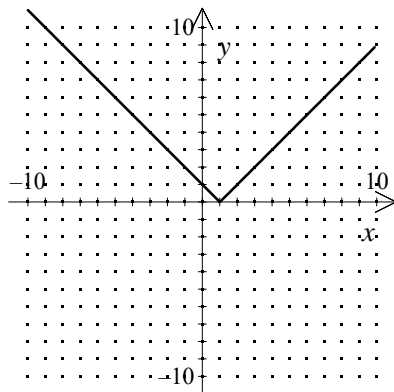
[1] D

[2] A

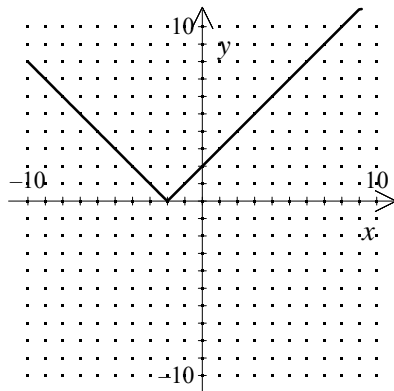


Similarities: Both go through the origin, both have one side of the graph in the first quadrant, both have the same steepness for the part in the first quadrant. Differences: $y = x$ is in the first and the third quadrants, $y = |x|$ is in the first and the second quadrants. $y = x$ goes below the x -axis, $y = |x|$ does not.

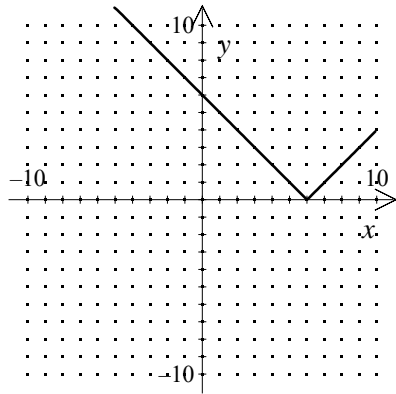
[3] $y = x$ is a straight line, $y = |x|$ is two line segments.



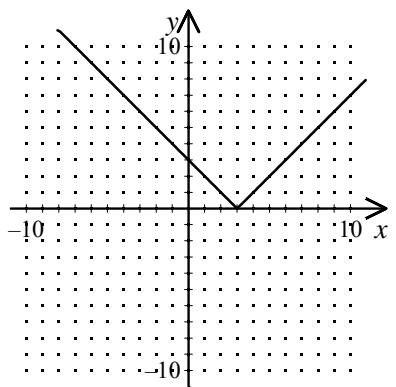
[4] _____



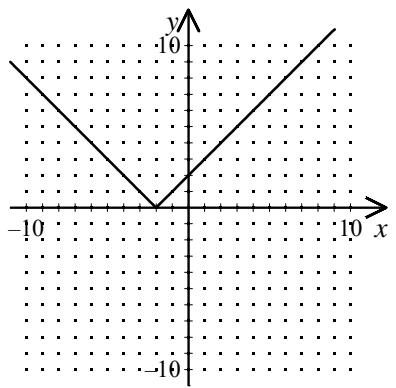
[5] _____



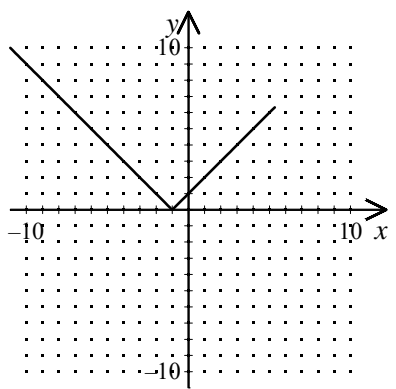
[6]



[7]



[8]



[9]