



GRAPHING ABSOLUTE VALUE FUNCTIONS WORKSHEET

For the functions below, identify the vertex and then describe the transformations from the parent function:

$y = |x|$.

1. $y = -|x+5|$

2. $y = 4|x-3|-5$

3. $y = -3|x+2|+6$

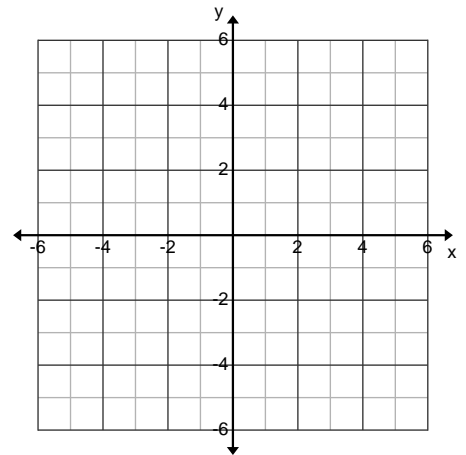
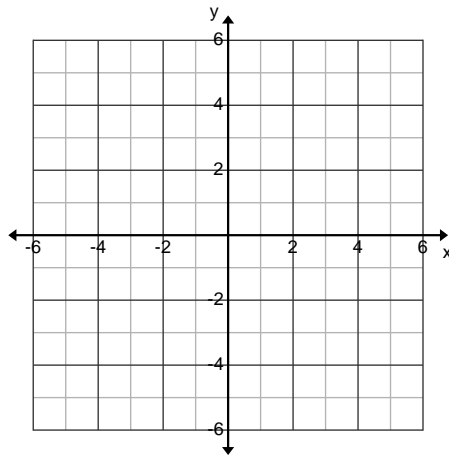
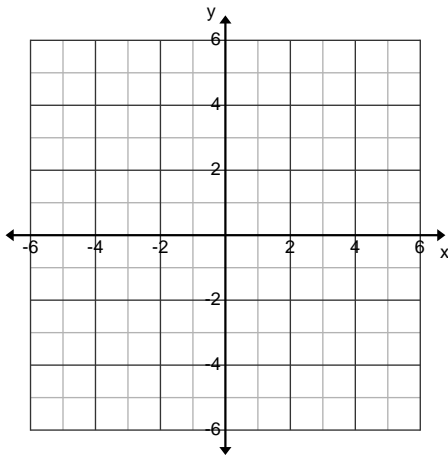
4. $y = \frac{1}{3}|x|-4$

Graph the functions.

5. $y = |x|-2$

6. $y = |x+3|$

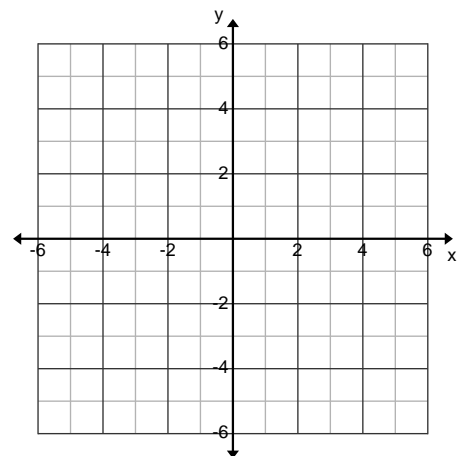
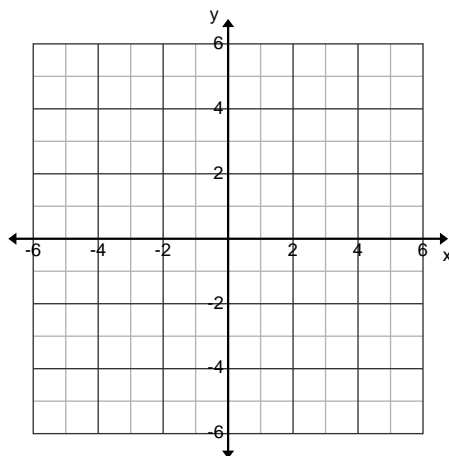
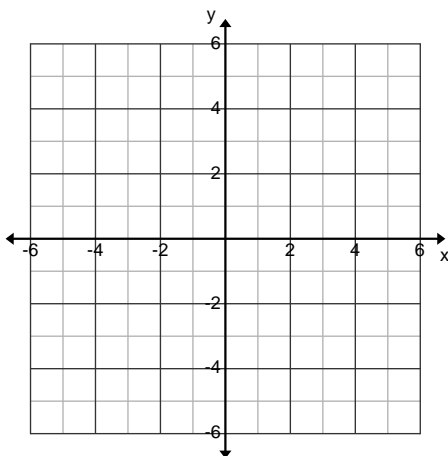
7. $y = |x+2|+1$



8. $y = 2|x+1|-1$

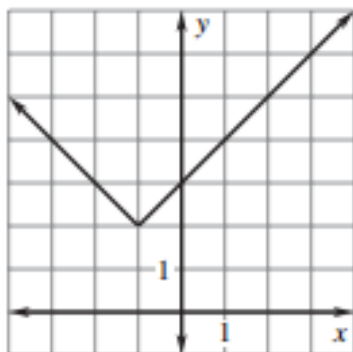
9. $y = -|x-2|+3$

10. $y = \frac{1}{2}|x|-3$

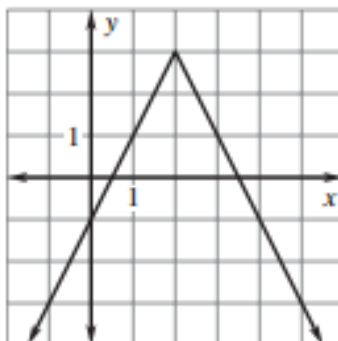


Find the equation for the graphs shown below. Write the equation as an absolute-value function and also as a piecewise-defined function.

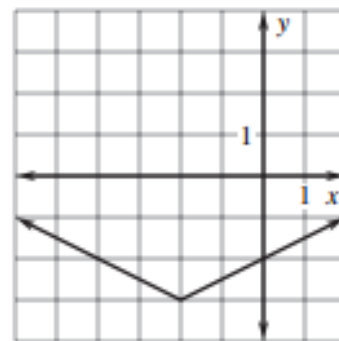
11.



12.



13.



State the domain and range for the functions above.

14. (#11 above)

15. (#12 above)

16. (#13 above)