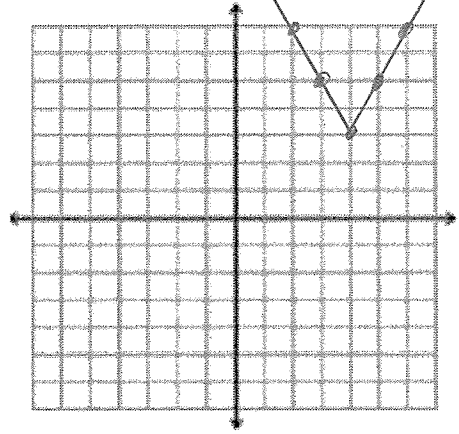


Advanced Algebra II Honors - Graphs of Absolute Value Functions Practice

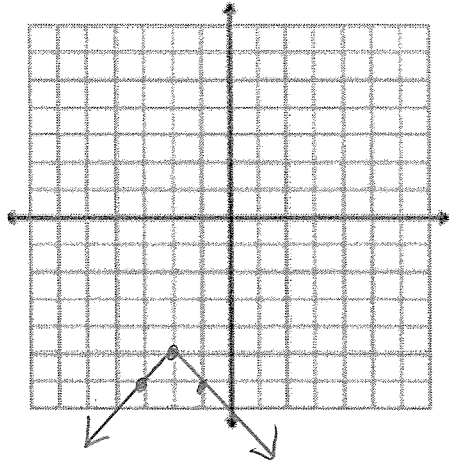
KEY

Graph the following functions.

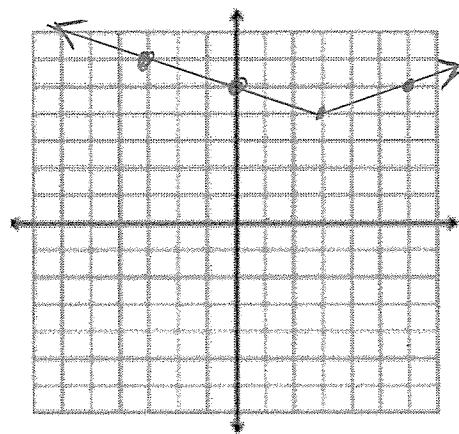
1.  $f(x) = 2|x - 4| + 3$   
 $a = 2$   
 vertex  $(4, 3)$



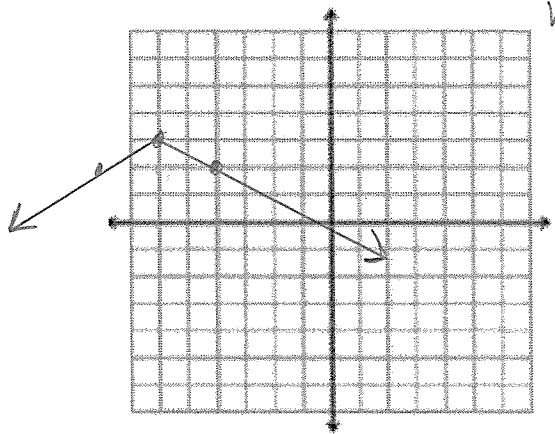
2.  $f(x) = -|x + 2| - 5$   
 $a = -1$   
 vertex  $(-2, -5)$



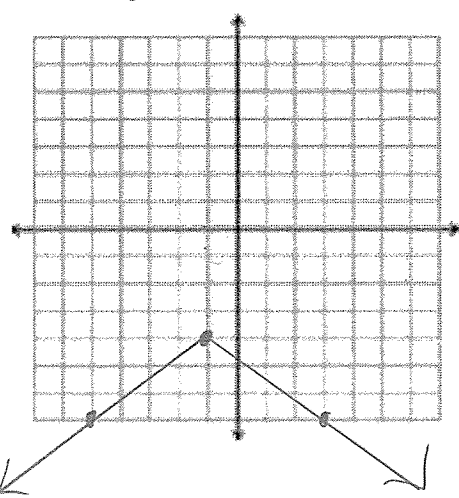
3.  $f(x) = \frac{1}{3}|x - 3| + 4$   
 $a = \frac{1}{3}$   
 vertex  $(3, 4)$



4.  $f(x) = -\frac{1}{2}|x + 6| + 3$   
 $a = -\frac{1}{2}$   
 vertex  $(-6, 3)$

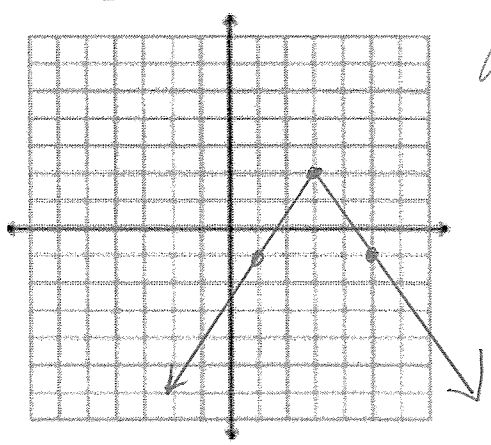


5.  $f(x) = -\frac{3}{4}|x + 1| - 4$   
 vertex  $(-1, -4)$   
 $a = -\frac{3}{4}$



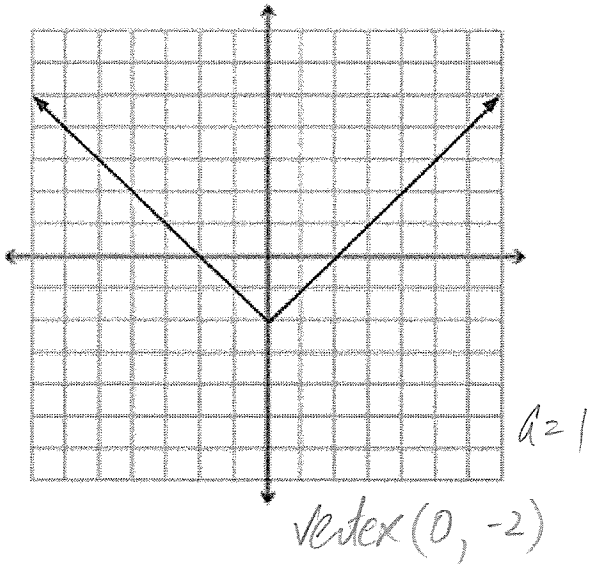
6.  $f(x) = -\frac{3}{2}|3 - x| + 2$   
 vertex  $(3, 2)$   
 $a = -\frac{3}{2}$

x	y
1	-1
2	1/2
3	2
4	1/2
5	-1



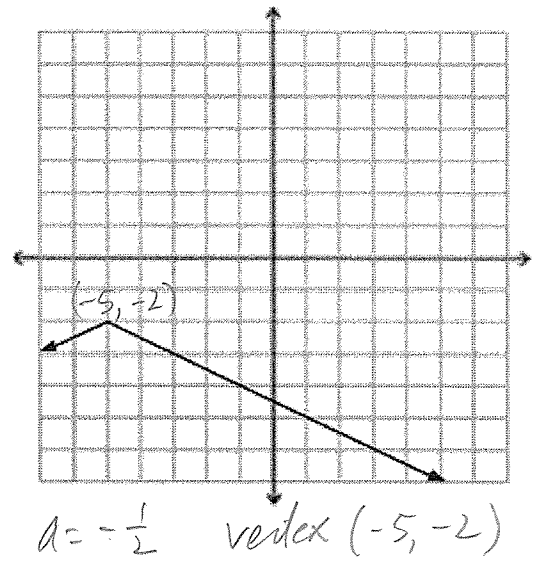
Write the function for each graph shown.

7.



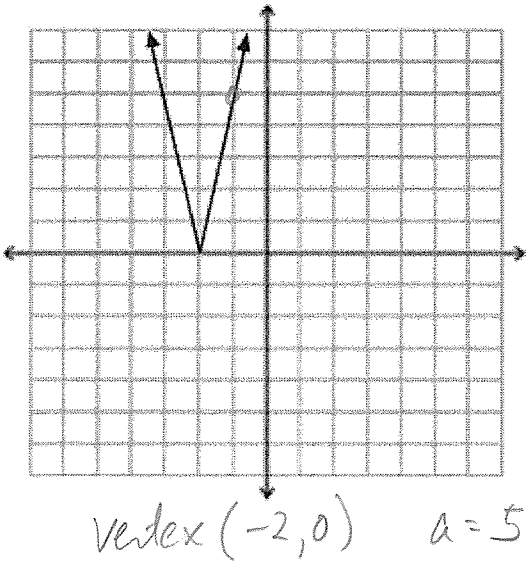
$$y = |x| - 2$$

8.



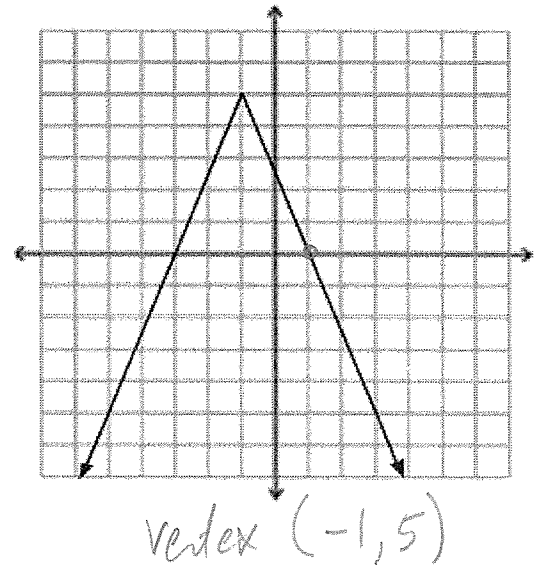
$$y = -\frac{1}{2}|x+5| - 2$$

9.



$$y = 5|x+2|$$

10.



$$y = -\frac{5}{2}|x+1| + 5$$