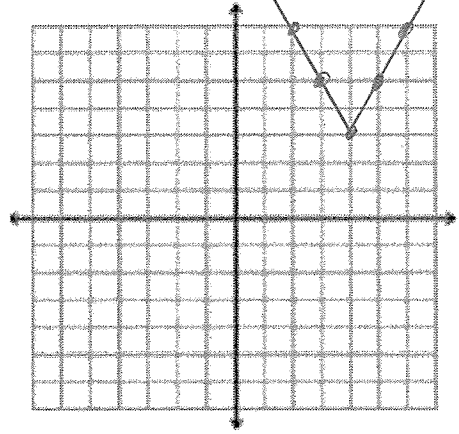


Advanced Algebra II Honors - Graphs of Absolute Value Functions Practice

KEY

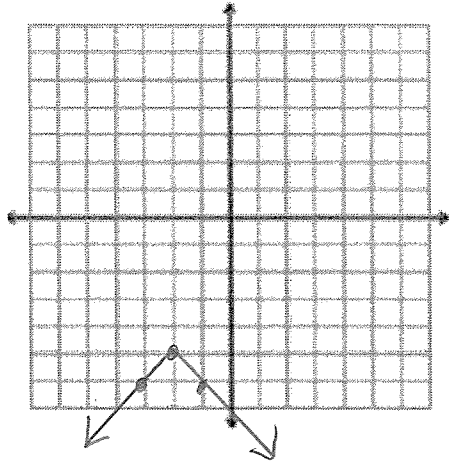
Graph the following functions.

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



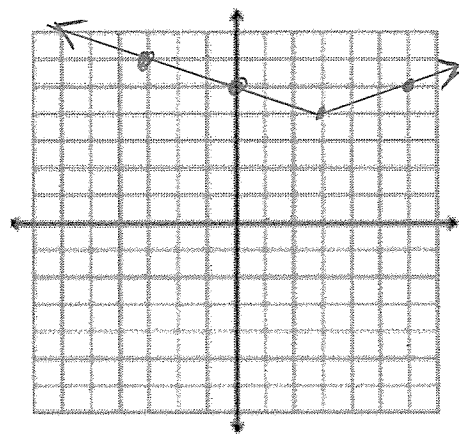
$a = 2$
vertex $(4, 3)$

2. $f(x) = -|x + 2| - 5$



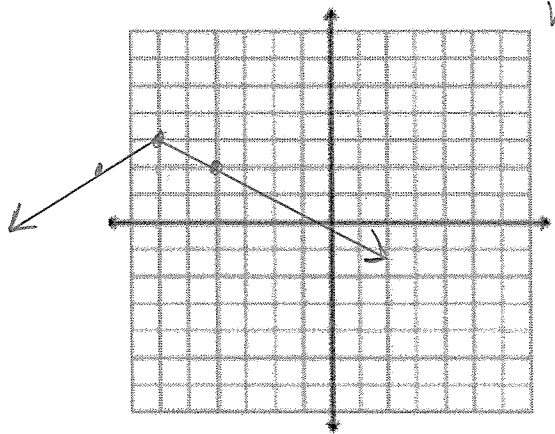
$a = -1$
 $V(-2, -5)$

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



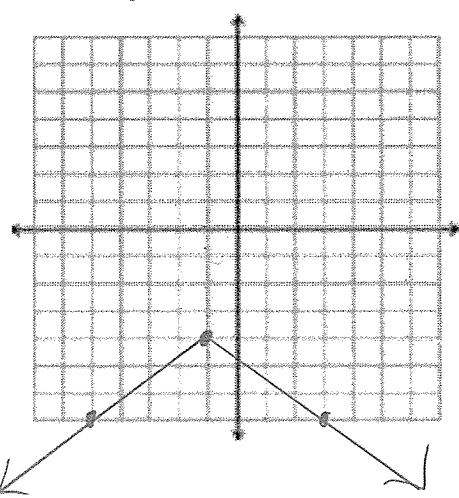
$a = \frac{1}{3}$
 $V(3, 4)$

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



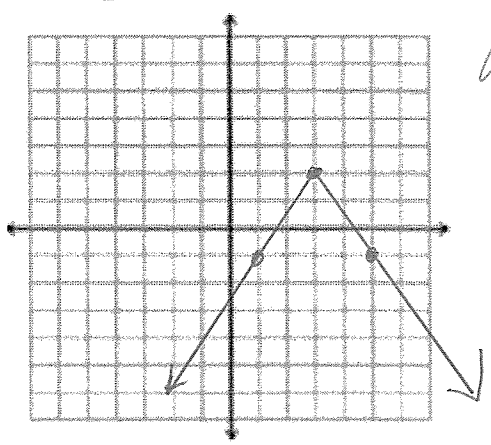
$a = -\frac{1}{2}$
vertex $(-6, 3)$

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



vertex $(-1, -4)$
 $a = -\frac{3}{4}$

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

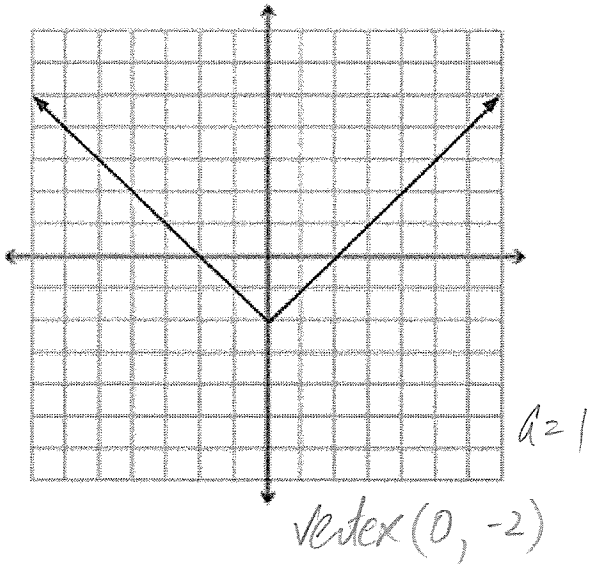


vertex $(3, 2)$
 $a = -\frac{3}{2}$

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

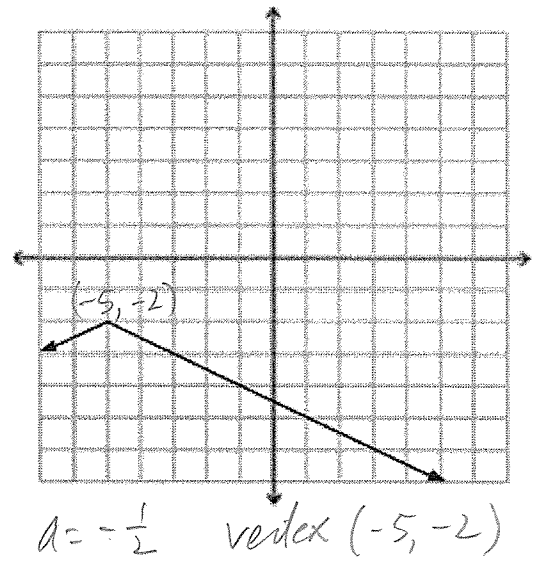
Write the function for each graph shown.

7.



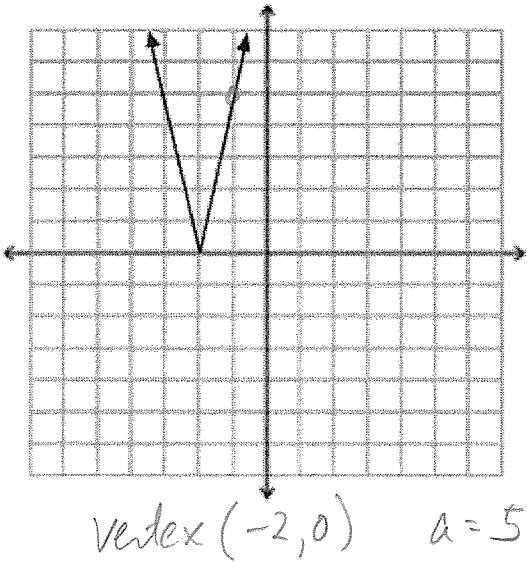
$$y = |x| - 2$$

8.



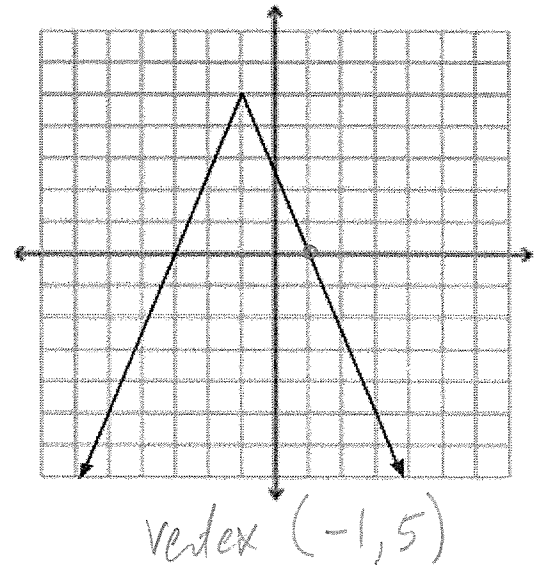
$$y = -\frac{1}{2}|x+5| - 2$$

9.



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

10.



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