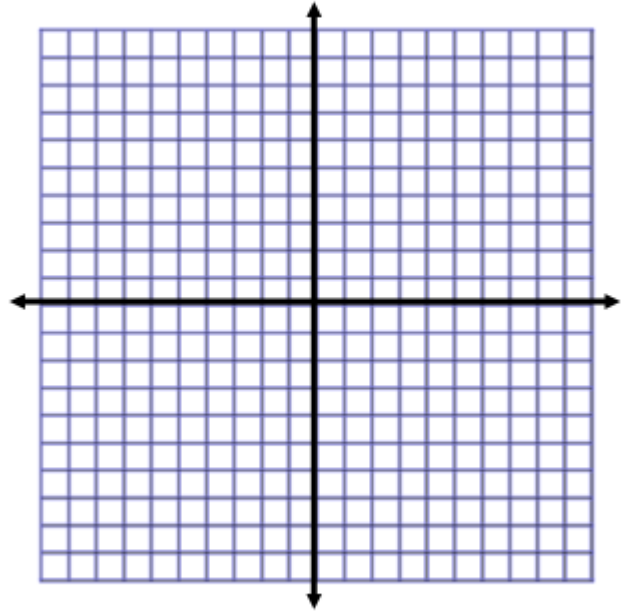


Name _____ Date _____ Period _____

Absolute Value Graphs

Graph $y = |x|$ using the table:

x	y
-5	
-4	
-3	
-2	
-1	
0	
1	
2	
3	
4	
5	



Part A. Using the file “transforming abs val,” answer the following questions based on the parent function of $y = |x|$. **For each question, always start with $y = |x|$ so what $a = 1$, $h = 0$, and $k = 0$.**

1. What do you think will happen when you **increase** the value of k ?

a. Now, increase the value of k . What happens?

2. What do you think will happen when you **decrease** the value of k ?

b. Now, decrease the value of k . What happens?

3. What do you think will happen when you **increase** the value of h ?

b. Now, increase the value of h . What happens?

4. What do you think will happen when you **decrease** the value of h ?

b. Now, decrease the value of h . What happens?

5. What do you think will happen when you **increase** the value of **a**?

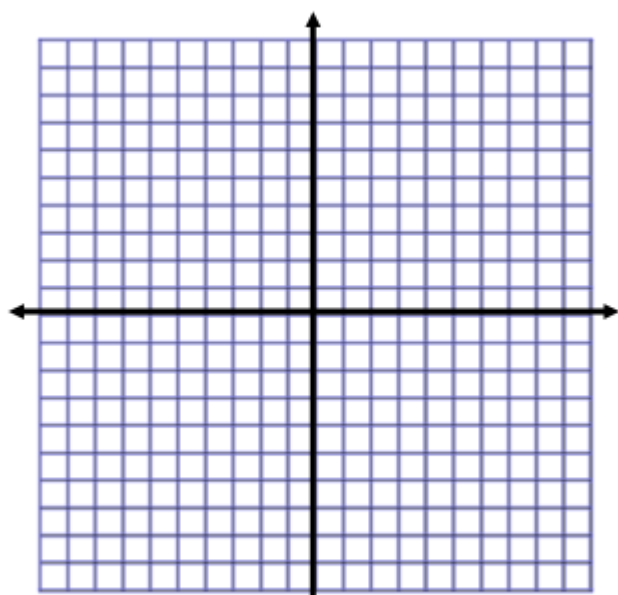
b. Now, increase the value of **a**. What happens?

6. What do you think will happen when you **decrease** the value of **a**?

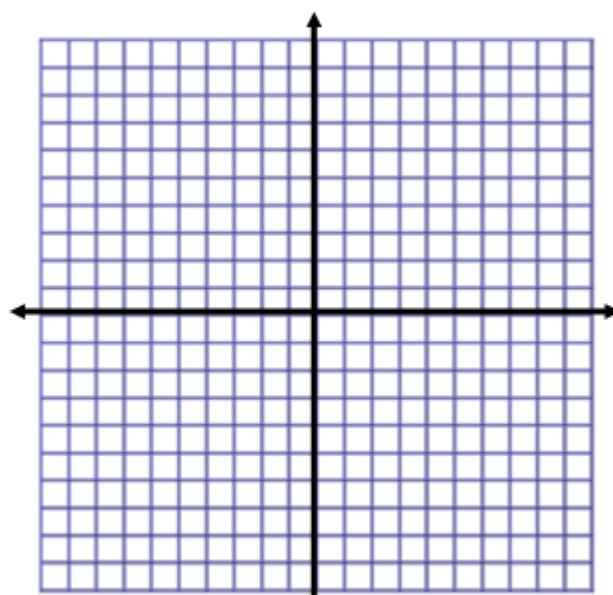
b. Now, decrease the value of **a**. What happens?

Part B. Practice graphing absolute value graphs by hand. Check using the file.

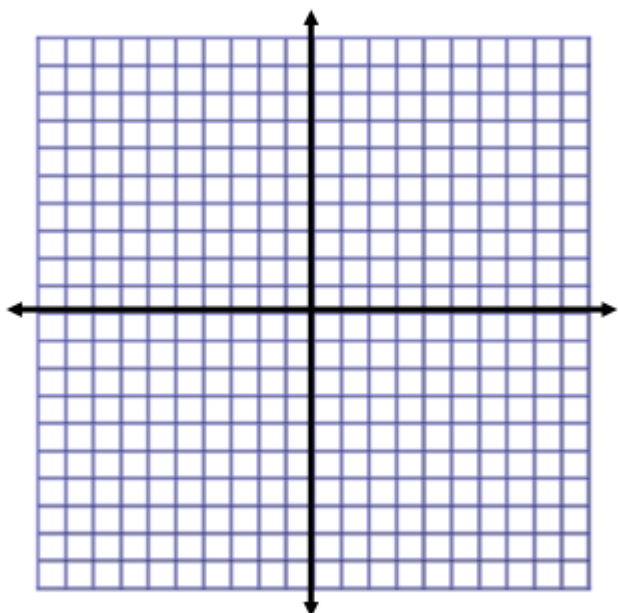
7. $y = |x| + 3$



8. $y = |x - 2|$



9. $y = |x + 4| - 5$



10. $y = |x - 6| + 4$

