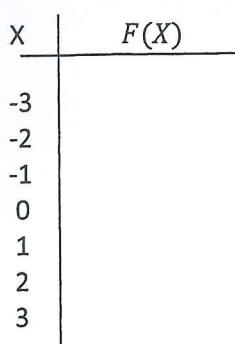
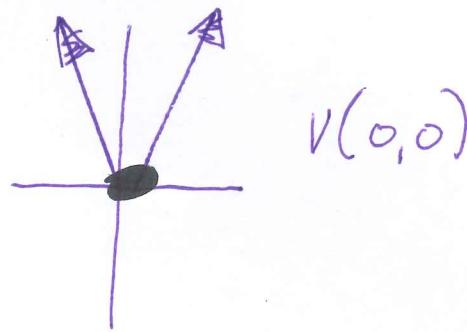


1.  $f(X) = |X|$

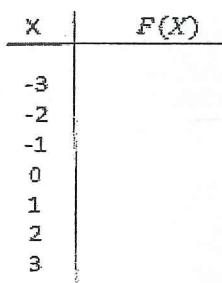


I am the Parent function

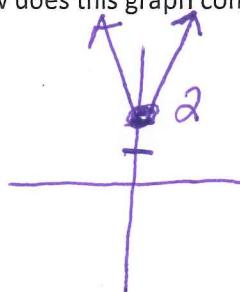


V(0,0)

2.  $f(X) = |X| + 2$

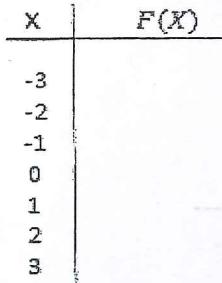


How does this graph compare to the parent function

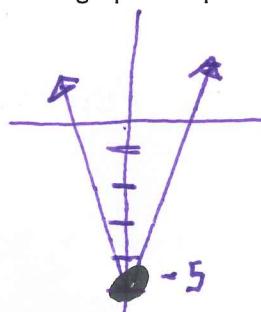


V(0,2)

3.  $f(x) = |X| - 5$



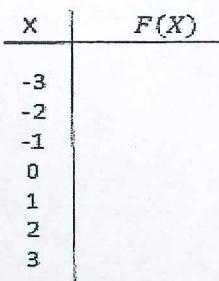
How does this graph compare to the parent function



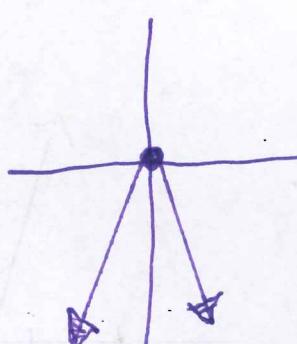
V(0, -5)

4.  $f(x) = -|x|$

$a = -1$   
upside down



How does this graph compare to the parent function



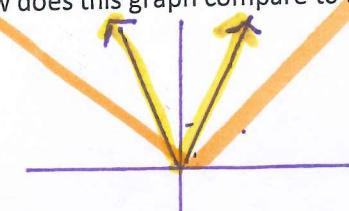
V(0,0)

5.  $f(x) = \frac{1}{2} |x|$

x	$F(x)$
-3	1.5
-2	1
-1	0.5
0	0
1	0.5
2	1
3	1.5

Smaller the # wider the graph

How does this graph compare to the parent function



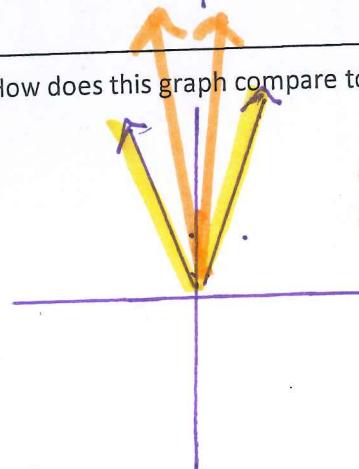
6.  $f(x) = 3 |x|$

$a = 3$   
 $3 > 1$

x	$F(x)$
-3	9
-2	6
-1	3
0	0
1	3
2	6
3	9

How does this graph compare to the parent function

Larger the # shinier the graph

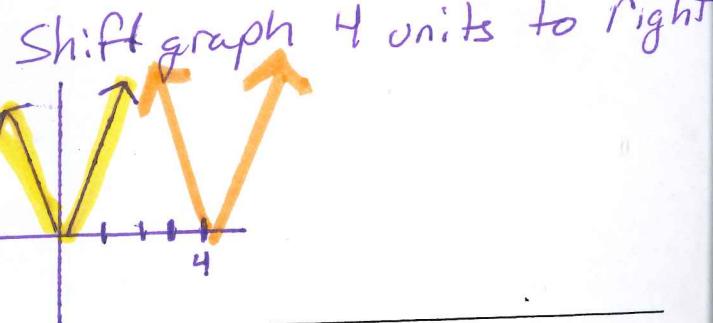


7.  $f(x) = |x - 4| + 0$

How does this graph compare to the parent function

x	$F(x)$
-3	7
-2	6
-1	5
0	4
1	3
2	2
3	1
4	0
5	1
6	2
7	3
8	4

Vertex(4,0)

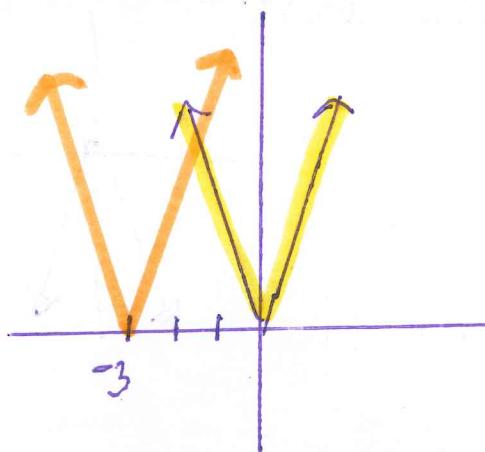


8.  $f(x) = |x + 3| + 0$

How does this graph compare to the parent function

x	$F(x)$
-4	1
-3	0
-2	1
-1	2
0	3
1	4
2	5
3	6
4	7

Vertex(-3,0) Shift graph 3 units to left

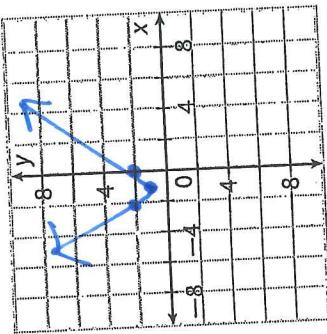


Tuesday 3-19

k  
Graph each absolute value function.

1.  $g(x) = |x + 1| + 1$

Vertex  $(-1, 1)$



Step #1 Find the vertex  
Step #2 Plot the point  $\frac{+1}{+1}$   
Step #3 Slope is  $\frac{+1}{+1}$

Graph the absolute value function  $g(x) = |x + 1| + 2$  along with the parent function  $f(x) = |x|$ .

Vertex  $(-1, 2)$

