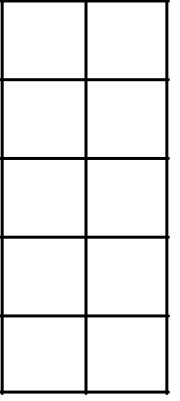
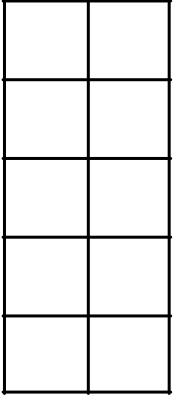
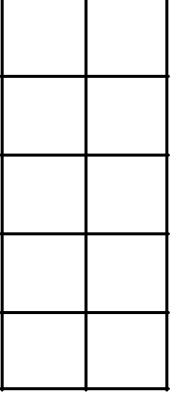
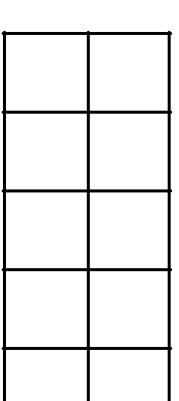
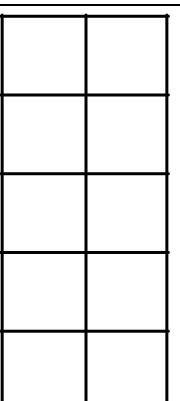
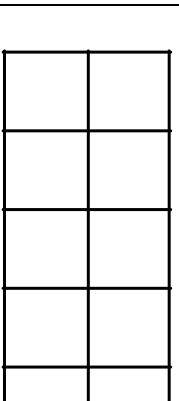


Name: _____

Date: _____

Pre Calculus 11: HW Section 7.2 Graphing Absolute Value Equations:

1. Given each equation, make a TOV, graph it on the grid provided, and state the piece wise function:

a) $y = x + 4 $ 	b) $y = x - 2 $ 
a) $y = 2x - 3 $ 	b) $y = - 3x + 4 $ 
a) $y = -2x - 5 $ 	b) $y = - 4 - 3x $ 

a) $y = x^2 - 4 $ 	b) $y = (x+2)^2 - 4 $
a) $y = - (x-5)^2 - 9 $ 	b) $y = x^2 - 6x + 4 $

2. What is the difference between the graphs of $y = |3x+1|$ and $y = -|3x+1|$.
3. What is the difference between the graphs of $y = |3x+1|$ and $y = |3x+1|+4$.
4. The following points $(3,5)$, $(-3,-7)$, $(-2,8)$, $(7,-10)$, and $(-3,-9)$ are on the function $y = f(x)$. What will the coordinates be on the function: $y = |f(x)|$?

5. Given each equation on the right, indicate which of the graphs on the right is the corresponding one:

a) $y = - -3x + 7 $	b) $y = (x+3)^2 - 4 $	i)	ii)	iii)
c) $y = - (x-3)^2 - 5 $	d) $y = 3x + 7 $	iv)	v)	vi)
e) $y = (x+3)^2 + 1 $	f) $y = - -5x - 8 + 4$			

6. Given each equation, indicate the coordinates of the vertex. Show work with space provided:

a) $y = 2x $	b) $y = 2x - 3 $	c) $y = 2x + 5 $
d) $y = -3x $	e) $y = -3x + 7 $	f) $y = -3x - 8 $
g) $y = 6x $	h) $y = 6x + 4$	i) $y = 6x - 3$
j) $y = - 3 - 4x + 5$	k) $y = 10 - 7 - 5x $	l) $y = 2 + 2 x - 5 $

7. Given the graphs of $y = f(x)$, draw the graph of $y = |f(x)|$

