

# "Review 55"

④  $x | y = |x| - 3$

-3	$  -3   - 3 = 3 - 3 = 0$	$(-3, 0)$
-2	$  -2   - 3 = -1$	$(-2, -1)$
-1	$  -1   - 3 = -2$	$(-1, -2)$
0	$  0   - 3 = -3$	$(0, -3)$
1	$  1   - 3 = -2$	$(1, -2)$
2	$  2   - 3 = 2 - 3 = -1$	$(2, -1)$
3	$  3   - 3 = 3 - 3 = 0$	$(3, 0)$

⑤  $y = x^2 - 4$

$(-3)^2 = -3 \times -3 = 9$   
 ~~$-3^2 = -9$~~

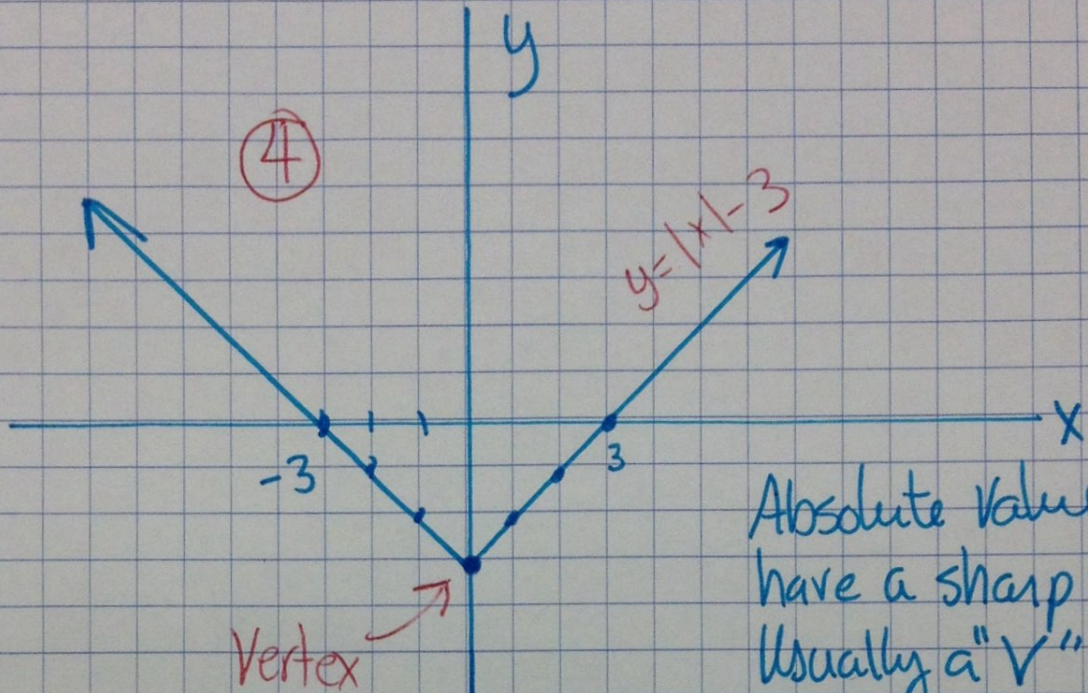
$x | y = x^2 - 4$

-3	$(-3)^2 - 4 = 9 - 4 = 5$	$(-3, 5)$
-2	$(-2)^2 - 4 = 4 - 4 = 0$	$(-2, 0)$
-1	$(-1)^2 - 4 = 1 - 4 = -3$	$(-1, -3)$
0	$0^2 - 4 = 0 - 4 = -4$	$(0, -4)$
1	$(1)^2 - 4 = -3$	$(1, -3)$
2	$(2)^2 - 4 = 0$	$(2, 0)$
3	$(3)^2 - 4 = 9 - 4 = 5$	$(3, 5)$

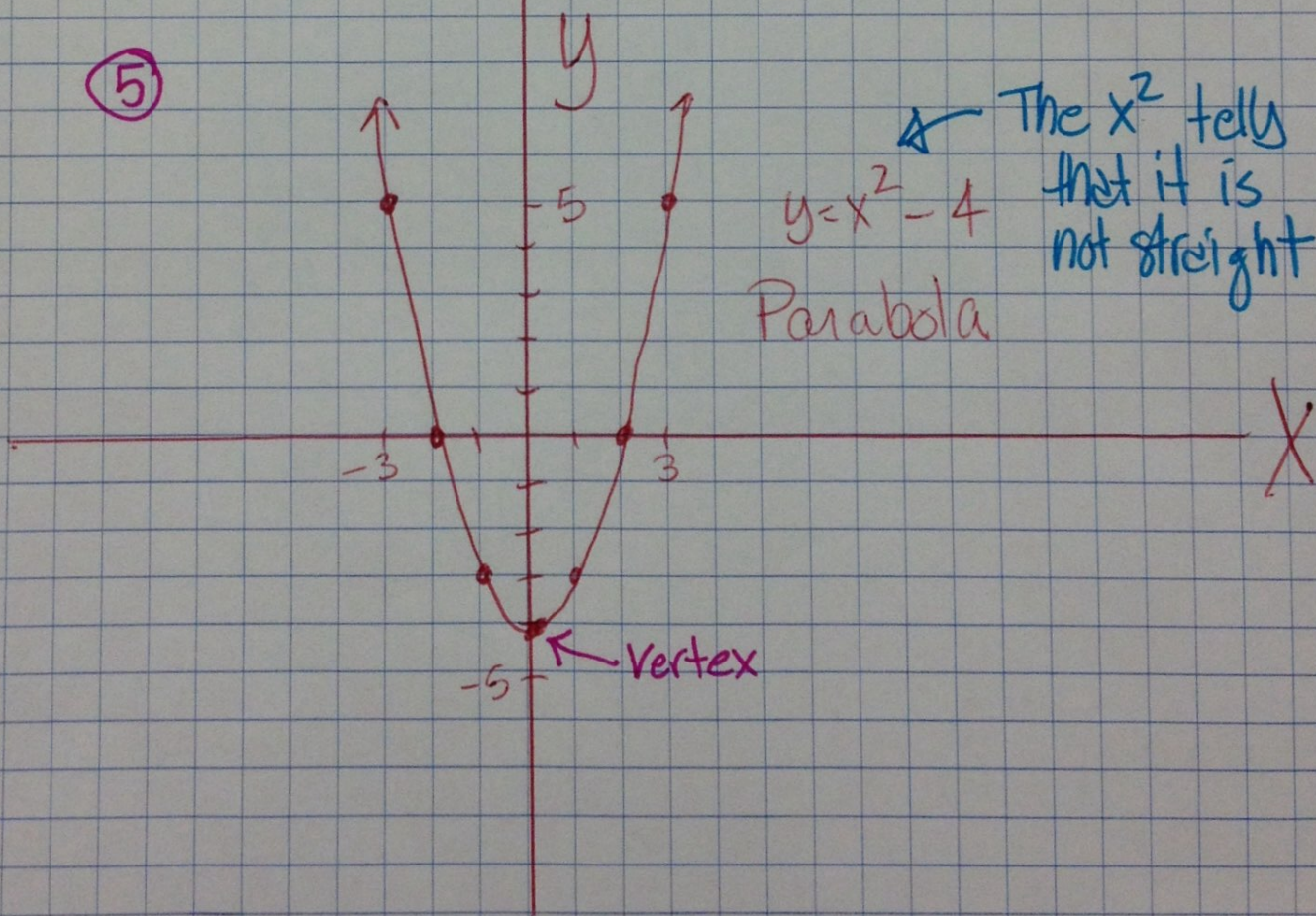
7 Do #7

$$y = -|x| + 3$$

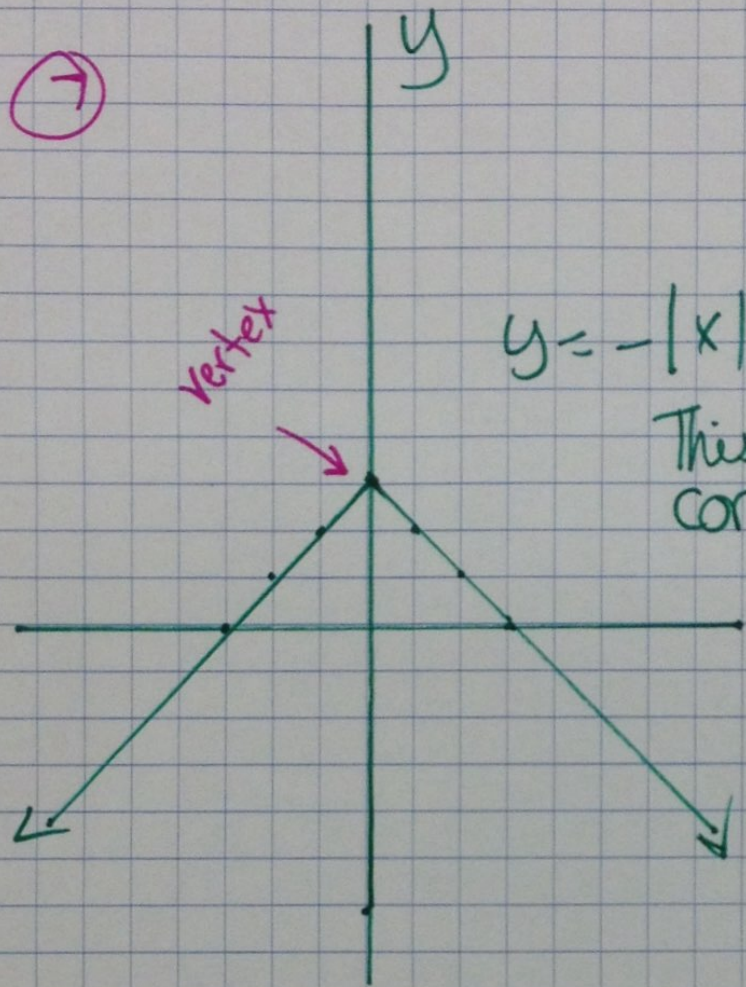
X	$y = - x  + 3$	Y-value ↓	Plot these ↓ points
-3	$- -3  + 3 = -\underline{3} + 3 = \underline{0}$		$(-3, 0)$
-2	$- -2  + 3 = -2 + 3 = \underline{1}$		$(-2, 1)$
-1	$- -1  + 3 = -1 + 3 = 2$		$(-1, 2)$
0	$- 0  + 3 = 0 + 3 = 3$		<del><math>(0, 2)</math></del> $(0, 3)$
1	$- 1  + 3 = -1 + 3 = 2$		$(1, 2)$
2	$- 2  + 3 = -2 + 3 = 1$		$(2, 1)$
3	$- 3  + 3 = -3 + 3 = 0$		$(3, 0)$



Absolute values have a sharp corner. Usually a "V" shape.



7



$$y = -|x| + 3$$

This has a sharp corner because it's an absolute value.

The line shows the infinite # of points that satisfy this equation.