## Name

## **Graphing Equations**

## How to graph equations:

Graph the equation y = x - 3.

First make a T-table like the one at the right.

Use at least 3 values for x.

Graph each ordered pair onto the coordinate plane, then draw a line connecting the points. Every point on this line meets the condition that y = x - 3.

Because the graph of this equation is a straight line, it is called a linear equation.





Complete each T-table. Then graph each equation.

1. 
$$y = x + 1$$

X	У
1	
2	
3	

					У) 5					
					. 1 -					
					4-					
					. 2					
					- 1 -					
_										
_										
{	5 -4	1 -3	-2	-	0 _1	2	2 3	3 4	1 (	x
-{		+ -9	-2		0 -1-	2	2 3	3 4	1 (	5 x
{	-4	1 -3	-2		0 -1 -2			3 4	1 (	x
		1-3	-2		0 1 <b>-</b> 2 <b>-</b> -3 <b>-</b> -4 <b>-</b>	2		3 4	1 (	5 x
					0 1 2 3 3			3 4		5 X

**2.** y = 3 - x

x	У
0	
2	
3	

				y,						
				- <b>5</b> -	Γ					
				- 4-						
				-3-						
				-2-						
				1-						
	_									
-5	-4 -	3 -	2 -	1_0	· -	1 2	2 3	3,	4	$\frac{1}{5}\hat{x}$
-5	-4 -	3 -	2 -			1 2	2 3	3 /	4	5 X
-5	-4 -	3 -	2 -	1 0  -1  -2-			2 3	3 /	4	5 X
-5	-4 -	3 -	2 -	1 0  -2-  -3-	- 		2 3	3 /	4	5 X
5	-4 -	3 -	2 -	1 0 -1- -2- -3- -4-			2 3	3	4 :	5 x

