

Graphing Lines on the Coordinate Plane

Warmup

1. Plot the points (x,y)

A: $(-3,-4)$
B: $(6,5)$
C: $(3,2)$
D: $(0,-1)$

2. Calculate:

$$x = -50 \div 5$$

3. Evaluate the expression if $x = 1$, and $y = -7$

$$x + y$$

4. Evaluate the expression if $x = 6$

$$-3x + -5$$

I. Graphing Lines on the Coordinate Plane by Calculating (x,y) Values

Homeschool



Honor Roll

Learn ~ Persevere ~ Succeed

Pre-Algebra and Geometry I

Wendy Harper

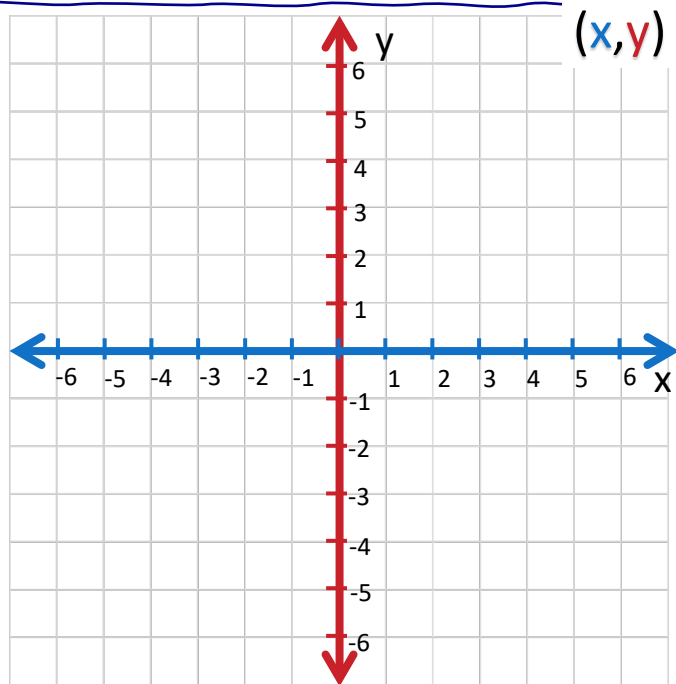
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I. Graph Lines on the Coordinate Plane by Calculating (x,y) Values

Graph the Function $y = 2x$ by setting up a table of (x,y) values.

X		Y
-2		
-1		
0		
1		
2		

Line: A line is drawn on the coordinate plane through two points.

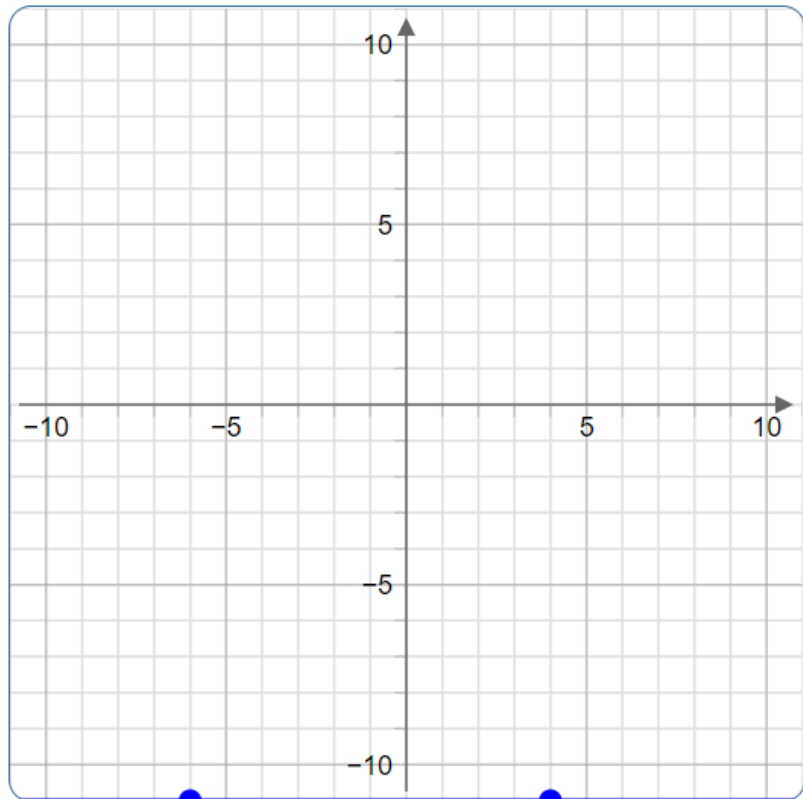


Graph the equation $y = 3x - 3$

To graph a line:

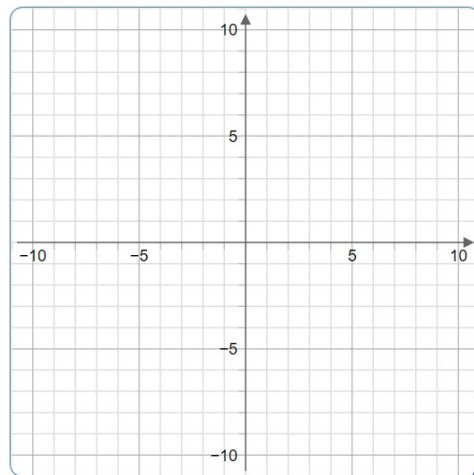
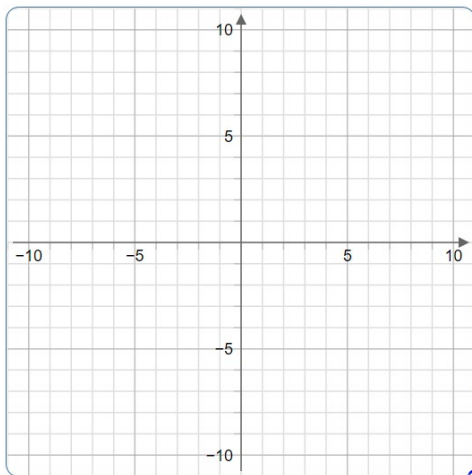
1. Substitute the values of x
2. Solve for y
3. Graph the (x,y) point on the coordinate plane.
4. Connect the points
5. Write the equation on the line.

x	$3x-3$	y
-2	$3(-2)-3$	
0	$3(0)-3$	
1	$3(1)-3$	
3	$3(3)-3$	



Two coordinate planes are given to allow you to practice more than once.

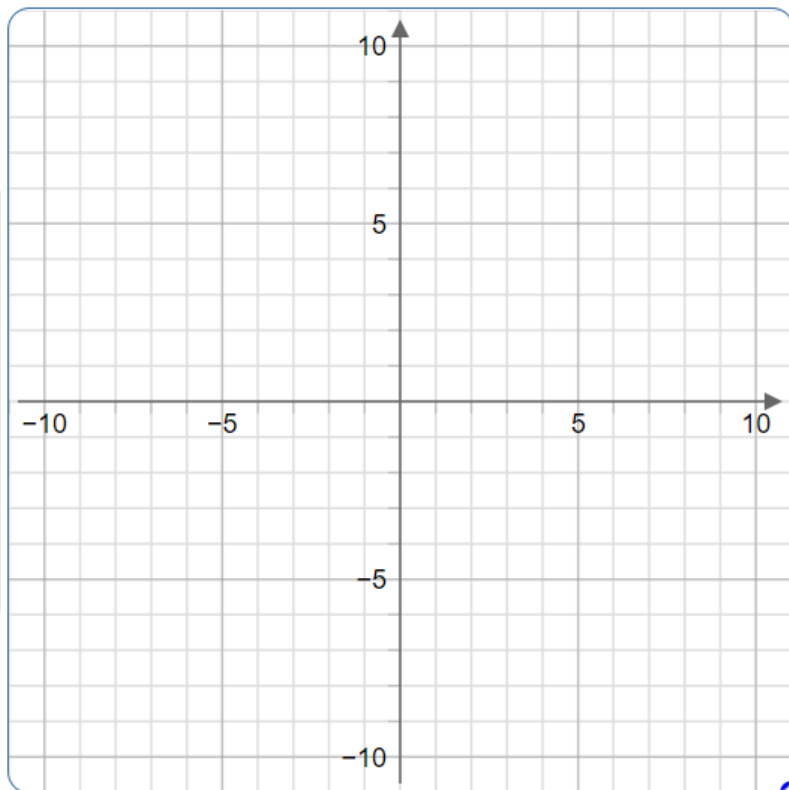
6.



Two coordinate planes are given to allow you to practice more than once.

5. Graph the equation $y = 5x - 4$

x	$5x-4$	y
-1	$5(-1)-4$	
0	$5(0)-4$	
1	$5(1)-4$	
2	$5(2)-4$	



[illegible]