Graphing Linear Equations

Directions: Fill out the table for each equation *(you may want to solve for y before you start.)*
Then graph each linear equation by plotting at least 3 points.

Note: *Each ordered pair of numbers you create is one of many solutions which makes the equation true.*

1. $x - y = 4$

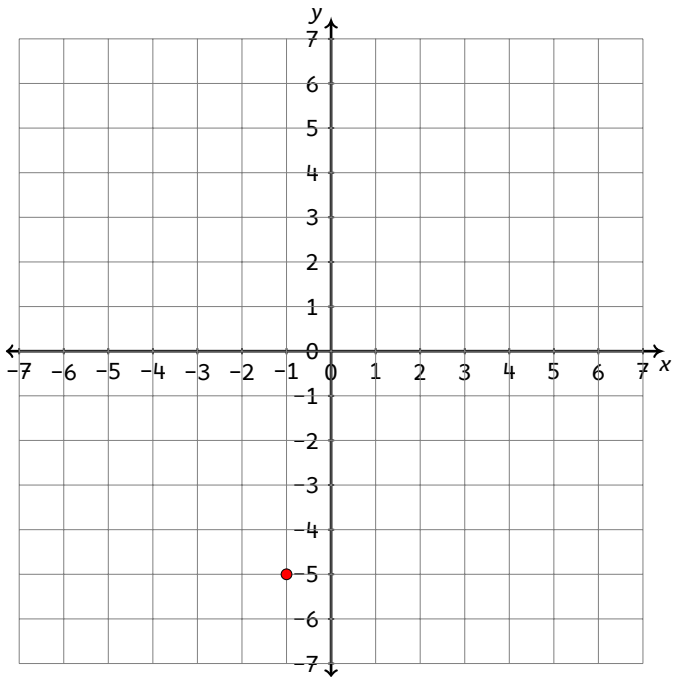
   $x = 4 + y$ *added y to each side*

   $x - 4 = y$ *added -4 to each side*

x	x - 4 = y	(x,y)
-1	-1 – 4 = -5	(-1,-5)
0		(,)
1		(,)
2		(,)

2. Using the graph find the value of x when y = 0.

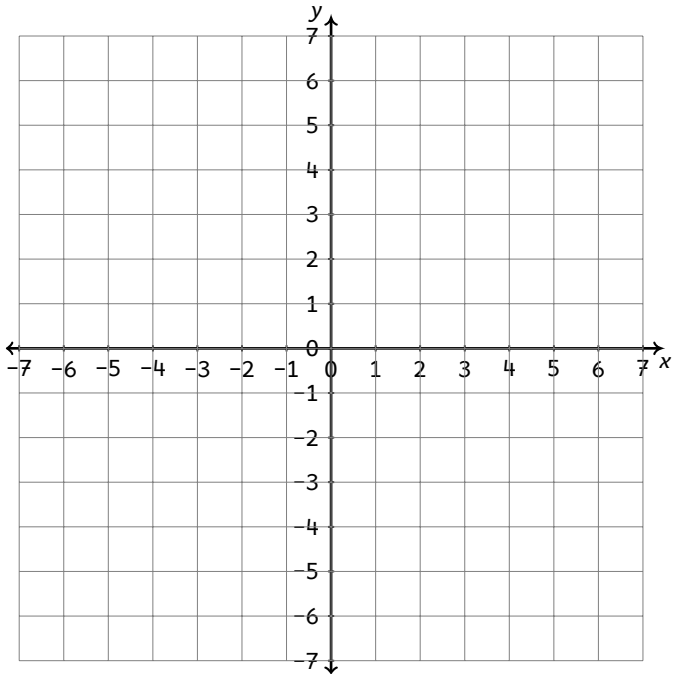
3. Check your answer mathematically.



4. $4x - y = 6$

x		(x,y)
0		(,)
1		(,)
2		(,)
3		(,)

5. Using the graph find the value of y when x = 0.



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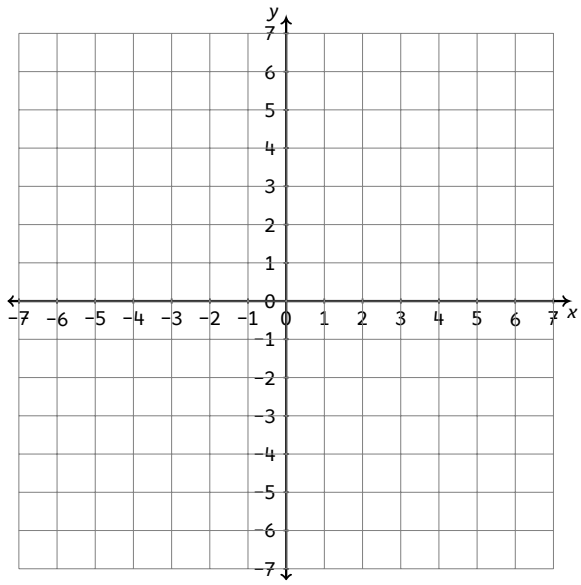
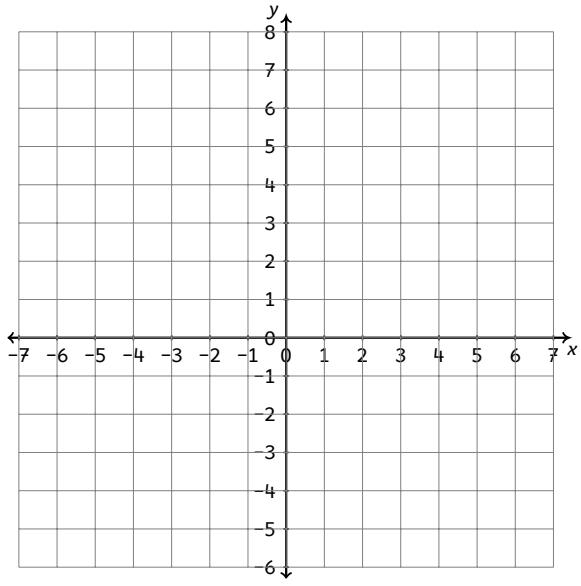
6. $x + 3y = 6$

x		(x,y)
-3		(,)
0		(,)
3		(,)
6		(,)



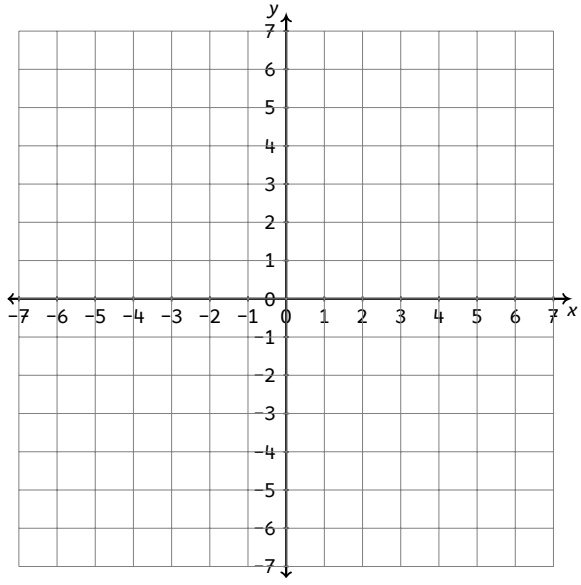
7. $4x + 2y = 12$

x		(x,y)
-1		(,)
0		(,)
1		(,)
2		(,)



8. $y = -2x$

x		(x,y)



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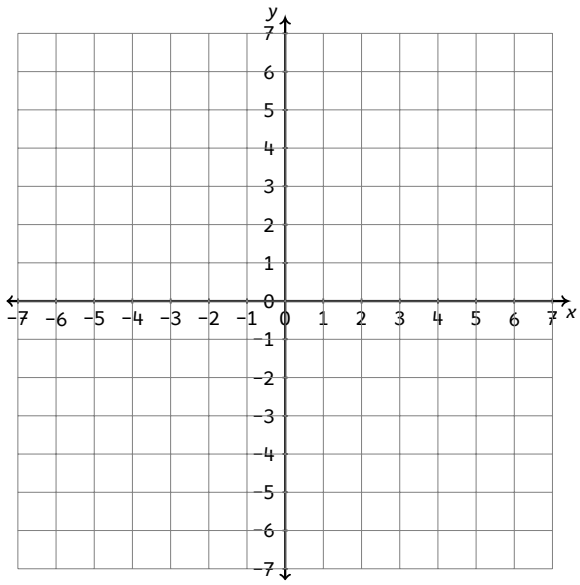
9. $3x - 2y = 2$

Should you pick even or odd values for x?

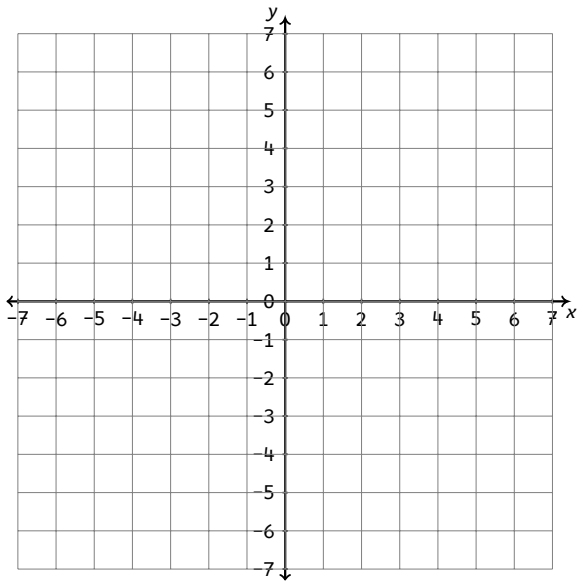
x		(x,y)
		(,)
		(,)
		(,)
		(,)



10. $2x - 3y = -3$ *Hint: solve for x*

Should you pick even or odd values for y?

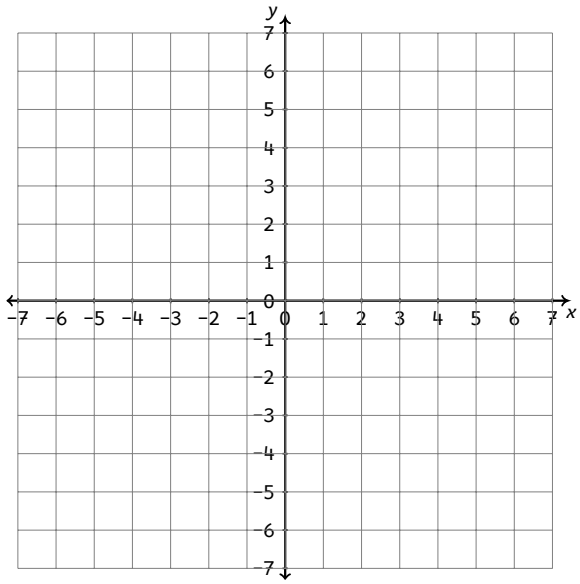
		(x,y)
		(,)
		(,)
		(,)
		(,)



11. $5x - 3y = 15$

Hint: First find the x and y-intercepts

x		(x,y)
0		(0 ,)
		(, 0)
6		(,)



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