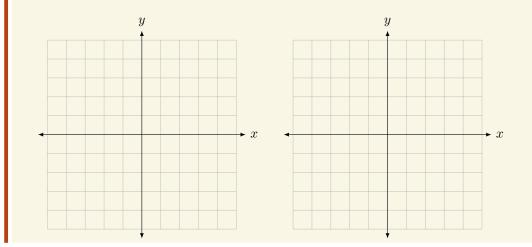
12.1 Lines and the Coordinate Plane - Worksheet 1

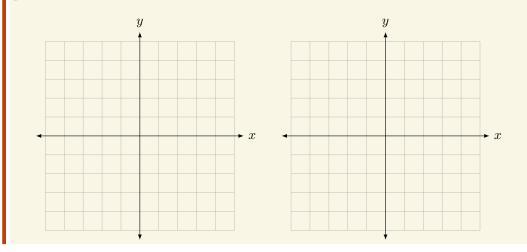
Determine four solutions of the equation 2x - 5y = 2, including at least one solution with a negative value and one solution that uses decimals or fractions.

Whenever you write points as ordered pairs, you must write the parentheses. Don't be lazy!

Plot the point (4, 2) and draw a visualization for both conceptualizations of locating that point.



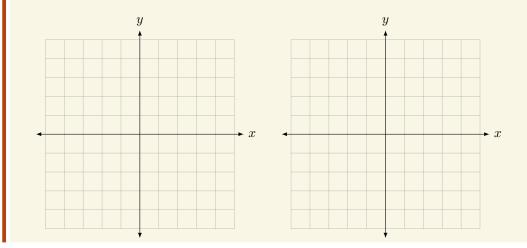
Plot the point (-3, -4) and draw a visualization for both conceptualizations of locating that point.



12.2 Lines and the Coordinate Plane - Worksheet 2

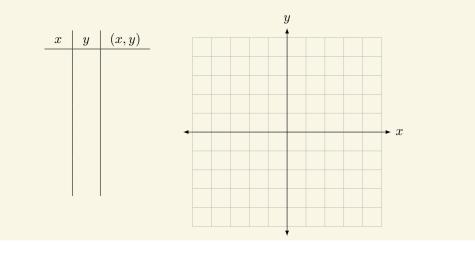
Determine 4 solutions of the equation x - 3y = -2, including at least one solution with a negative value and one solution that uses decimals or fractions.

² Plot the point (0,3) and draw a visualization for both conceptualizations of locating that point.



Zeros throw students off for some reason.

Find four solutions of the equation 2x - 3y = 1. Plot the points and sketch the solution.

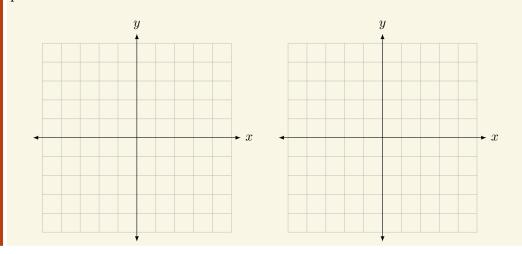


Try to pick points that fit on the given coordinate grid when plotting points. You will sometimes need to use off-grid points, but you should try to avoid that because the plots become increasingly inaccurate when you do.

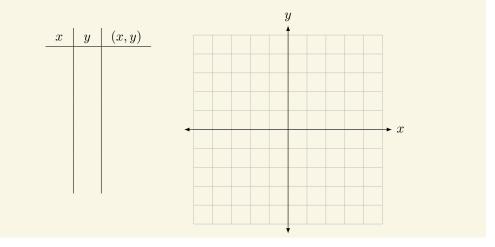
12.3 Lines and the Coordinate Plane - Worksheet 3

Determine 4 solutions of the equation 2x - 3y = -5, including at least one solution with a negative value and one solution that uses decimals or fractions.

² Plot the point (-5,0) and draw a visualization for both conceptualizations of locating that point.



Find four solutions of the equation -x + y = 3. Plot the points and sketch the solution.



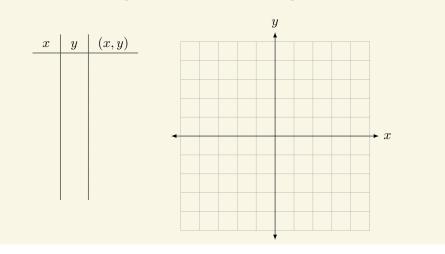
12.4 Lines and the Coordinate Plane - Worksheet 4

Each chart represents some solutions of a linear equation, but the equation of that linear equation isn't given. Determine three more points on the line based on the existing solutions.

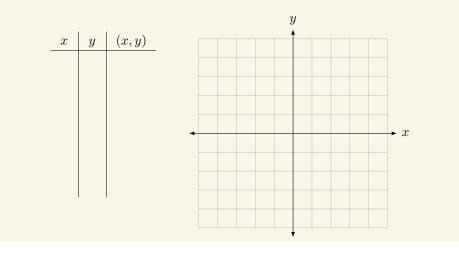
x	y	(x,y)	x	y	(x,y)
1	3	(1, 3)	-4	5	(-4,5)
2	1	(2, 1)	-2	4	(-2,4)
3	-1	(3, -1)	0	3	(0,3)

This is something of a puzzle that is built on your experience. If you're really stuck, try sketching the graph and looking for a pattern.

Find four solutions of the equation -3x - y = 4. Plot the points and sketch the solution.



Find four solutions of the equation x = -3. Plot the points and sketch the solution.



When there is no restriction on the *y* value, it means that you can pick the *y*-coordinate to be anything you want.

12.5 Lines and the Coordinate Plane - Worksheet 5

Each chart represents some solutions of a linear equation, but the equation of that linear equation isn't given. Determine three more points on the line between the given points.

x	y	(x,y)	x	y	(x,y)
-3	-2	(-3,2)	5	-3	(5, -3)
4	5	(4, 5)	-5	2	(-5, 2)

² Each chart represents some solutions of a linear equation, but the equation of that linear equation isn't given. Determine the missing coordinates based on the given points.

y	(x,y)	x	y	(x,y)
4	(-3,4)	5	3	(5, 3)
2	(-2,2)	2	1	(2,1)
		-4		
-4			7	
		11		
	4	4 (-3,4)	4 (-3,4) 5	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

Find four solutions of the equation 4x - 3y = -3. Plot the points and sketch the solution.

