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Algebra, 4c

1. Is the point (9,5) a solution to the equation $3x + 5y = 52$? Why or why not?

Is (9,5) a solution of $3x + 5y = 52$?

- ☐ Yes, because replacing x with 5 and y with 9 in the equation results in true statement.
- ☐ No, because replacing x with 9 and y with 5 in the equation results in false statement.
- ☐ Yes, because replacing x with 9 and y with 5 in the equation results in true statement.
- ☐ No, because replacing x with 5 and y with 9 in the equation results in false statement.

2. Fill in the blank so that the resulting statement is true.

The x -intercept of a line is the point where the line crosses the _____.

The x -intercept of a line is the point where the line crosses the

x -axis.

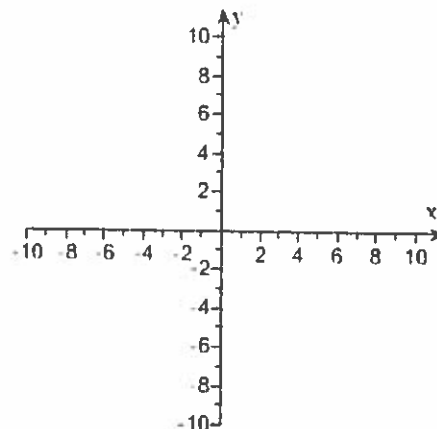
y -axis.

3. Complete the ordered pairs so that each is a solution of the given linear equation. Then graph the equation.

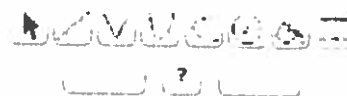
$$y = -2x + 1$$

First complete each line of the table so that the ordered pair (x,y) is a solution to the equation.

x	y
0	
-2	
1	



Use the graphing tool to graph the line using two points.



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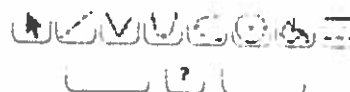
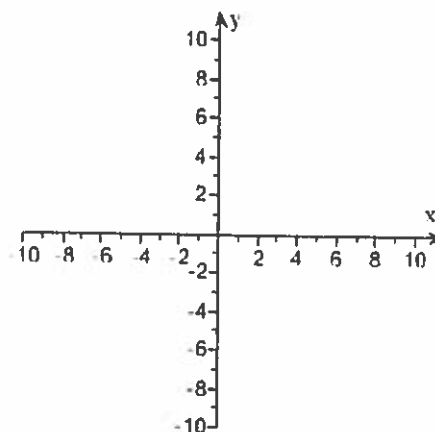
4. Complete the ordered pairs so that each is a solution of the given linear equation. Then graph the equation.

$$y = x - 8$$

First complete each line of the table so that the ordered pair (x,y) is a solution to the equation.

x	y
0	
1	
8	

Use the graphing tool to graph the line using two points.



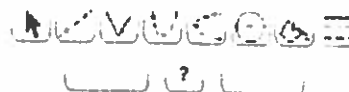
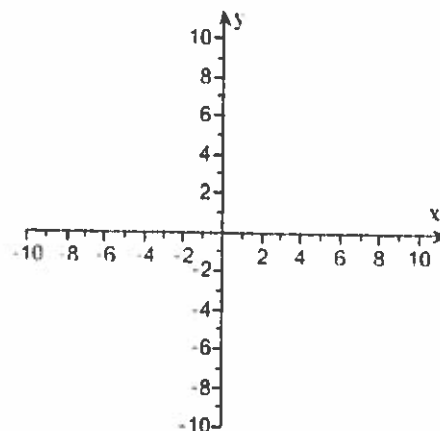
5. Complete the ordered pairs (0,__), (3,__), and (-1,__) so that each is a solution of the given linear equation. Then graph the equation.

$$y = 2x - 3$$

Complete the ordered pairs so that each is a solution of the given linear equation.

(0, __)
(3, __)
(-1, __)

Use the graphing tool to graph the line using two points.



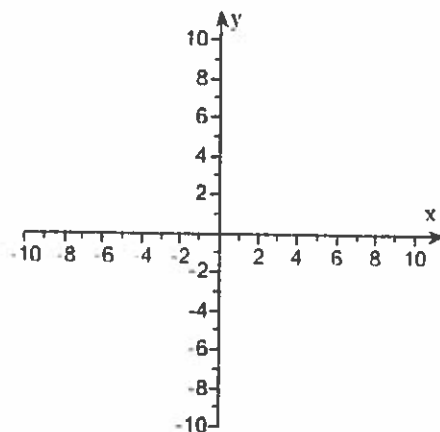
6. Complete the ordered pairs so that each is a solution of the given linear equation. Then graph the equation.

$$y = 4x + 1$$

First complete each line of the table so that the ordered pair (x,y) is a solution to the equation.

x	y
-1	
0	
1	

Use the graphing tool to graph the line using two points.



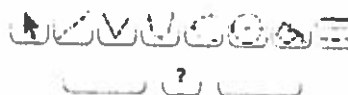
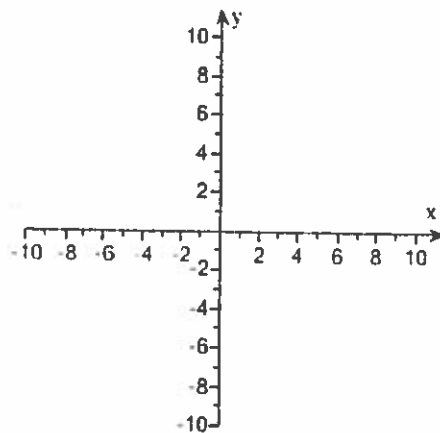
7. Graph the following equation by plotting three points and connecting them. Use a table of values to organize the ordered pairs.

$$y = -x - 1$$

First complete each line of the table so that the ordered pair (x,y) is a solution to the equation.

x	y
0	
2	
-2	

Use the graphing tool to graph the line using two points.



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Algebra, 4e

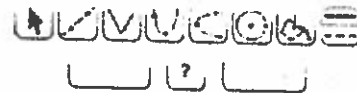
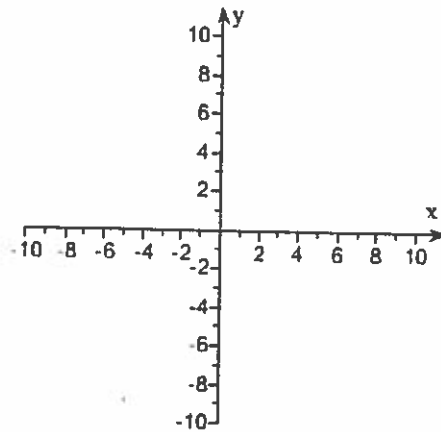
8. Graph the following equation by plotting three points and connecting them. Use a table of values to organize the ordered pairs.

$$3x + 8 + 4y = 20$$

First complete each line of the table so that the ordered pair (x,y) is a solution to the equation.

x	y
0	
4	
-4	

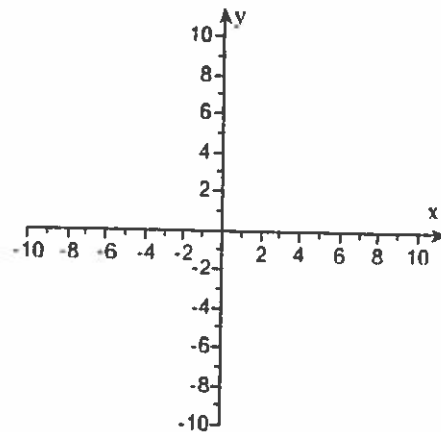
Use the graphing tool to graph the line using two points.



9. Graph the equation.

$$4x - 3y = 0$$

Use the graphing tool to graph the equation.



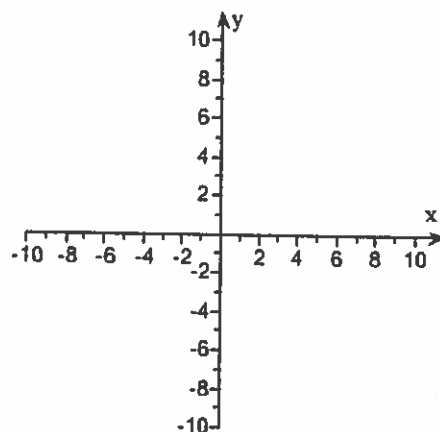
10. For the equation $y = 5 - 5x$, answer parts (a) and (b).

- (a) State the x- and y-intercepts
(b) Use the intercept method to graph.

(a) The x-intercept is .
(Type an ordered pair.)

The y-intercept is .
(Type an ordered pair.)

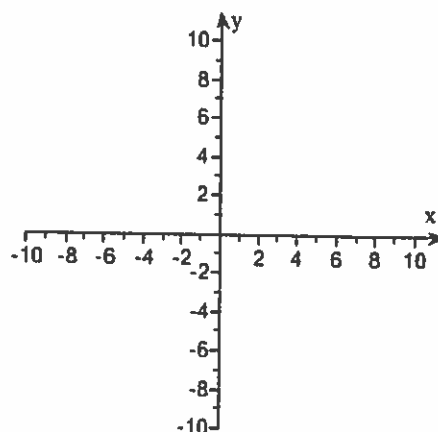
- (b) Use the intercepts when drawing the line. If only one intercept exists, use it and another point to draw the line.



11. Graph the equation. Be sure to simplify the equation before graphing it.

$$2x + 3y - 3 = -9$$

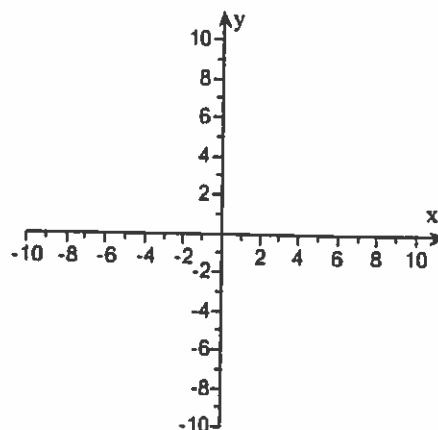
Use the graphing tool to graph the equation.



12. Graph the linear equation by any method.

$$y = 2x - 5$$

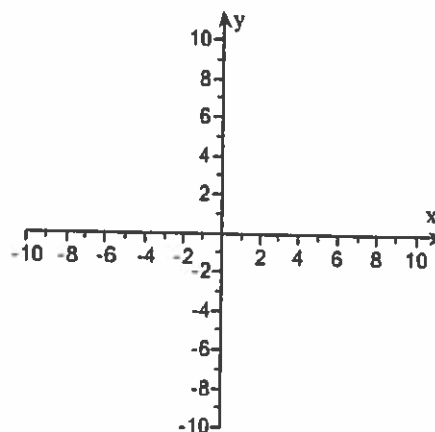
Use the graphing tool to graph the linear equation.



13. Graph the linear equation by any method.

$$y = -2x + 3$$

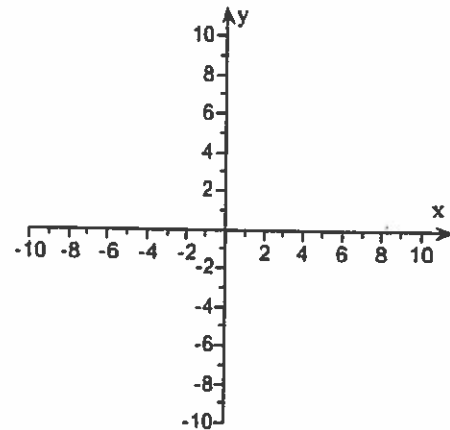
Use the graphing tool to graph the linear equation.



14. Graph the linear equation by any method.

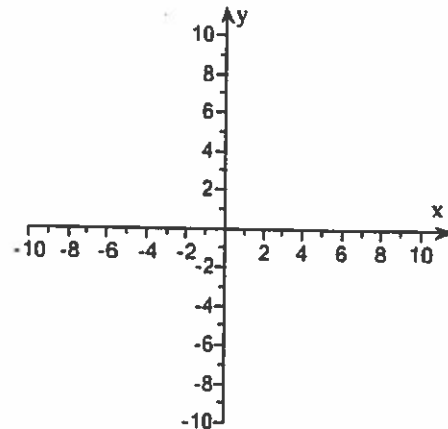
$$4x = -8y + 4$$

Use the graphing tool to graph the linear equation.



15. Graph the equation $x = -5$.

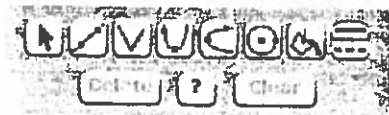
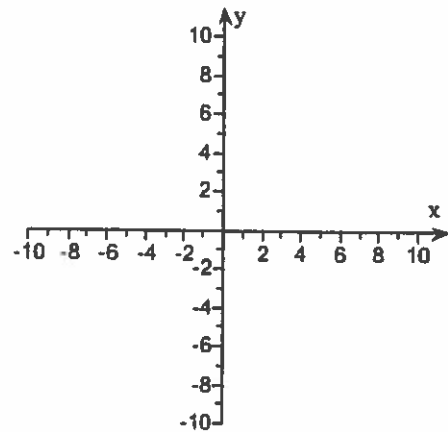
Use the graphing tool to graph the equation.



16. Graph the equation. Be sure to simplify the equation before graphing it.

$$20 + 3y = -2y$$

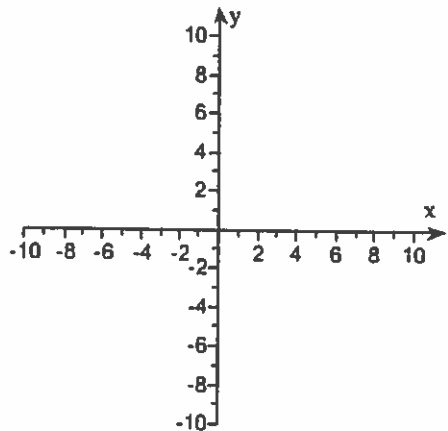
Use the graphing tool to graph the equation.



17. Graph the equation. Be sure to simplify the equation before graphing it.

$$8 + 5x = 9x$$

Use the graphing tool to graph the equation.



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Algebra, 4c

18. The number of foreign students enrolled in a certain college is approximated by the equation $S = 12t + 120$, where t is the number of years since 1980, and S is the number of foreign students. Graph the equation for $t = 0, 15$.

Find S when $t = 0$.

$S =$

Find S when $t = 15$.

$S =$

Graph the line that goes through the points.

