State whether the relations below represent functions. Explain your reasoning.

a.

x	y
-2	-8
0	4
2	-8
4	-14

b.
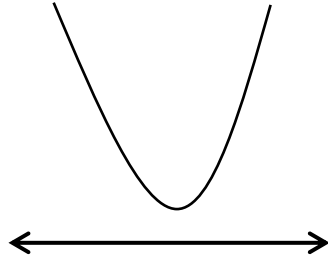
c. {(1,2), (3,6), (5,4), (5,8), (7,10)}

Function: Yes   No

Explanation:

Function: Yes   No

Explanation:

Function: Yes   No

Explanation:

Evaluated $f(x) = x^2 - 6x + 13$ for $f(-4)$.

What is the value of a?

$$2(a+4) = -a - 14 + 3a$$

Find $f(4)$, when $f(x) = 19x - 4$

Solve for x.

$$-7 - (-2x) = 3 + 2x - 10$$

Solve $PV = NRT$ for R.

Solve for c and justify your steps:

$$82x + 5 = 80x - 7$$

Translate and solve the following:

A fourth of a number less than eleven is equal to the number doubled

Choose ALL correct answers.
The ordered pair (-3, 4) is a solution to a system of equations. One of the lines in the system is $-2x + y = 10$. Which of the following could be the other line? *(LT 8)*

     a. $-4x - 5y = -8$
     b. $3y - x = 9$
     c. $y - 3x = 13$
     d. $2x + 6y = -18$

Write the equation for a line that passes through the points (-2, 8) and (4, 2).

Graph the following function on the graph at the right: $y = 4x - 3$.
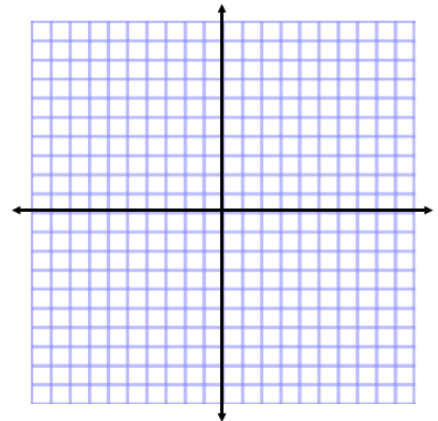
Graph the following function on the graph at the right: $3x - 9y = 18$.