

Solve each of the following for x.

$$3 - (4x + 5) - 2 = 3x - 2(7 - 6x)$$

$$3(5x - 1) + 6 - 4x = 1 - 5(3x + 1)$$

$$7x + 3(2x - 2) = 3 - 4(2x + 1)$$

$$-x - 3x + 2(4x - 3) = 6x + 5 + 2(5x + 7)$$

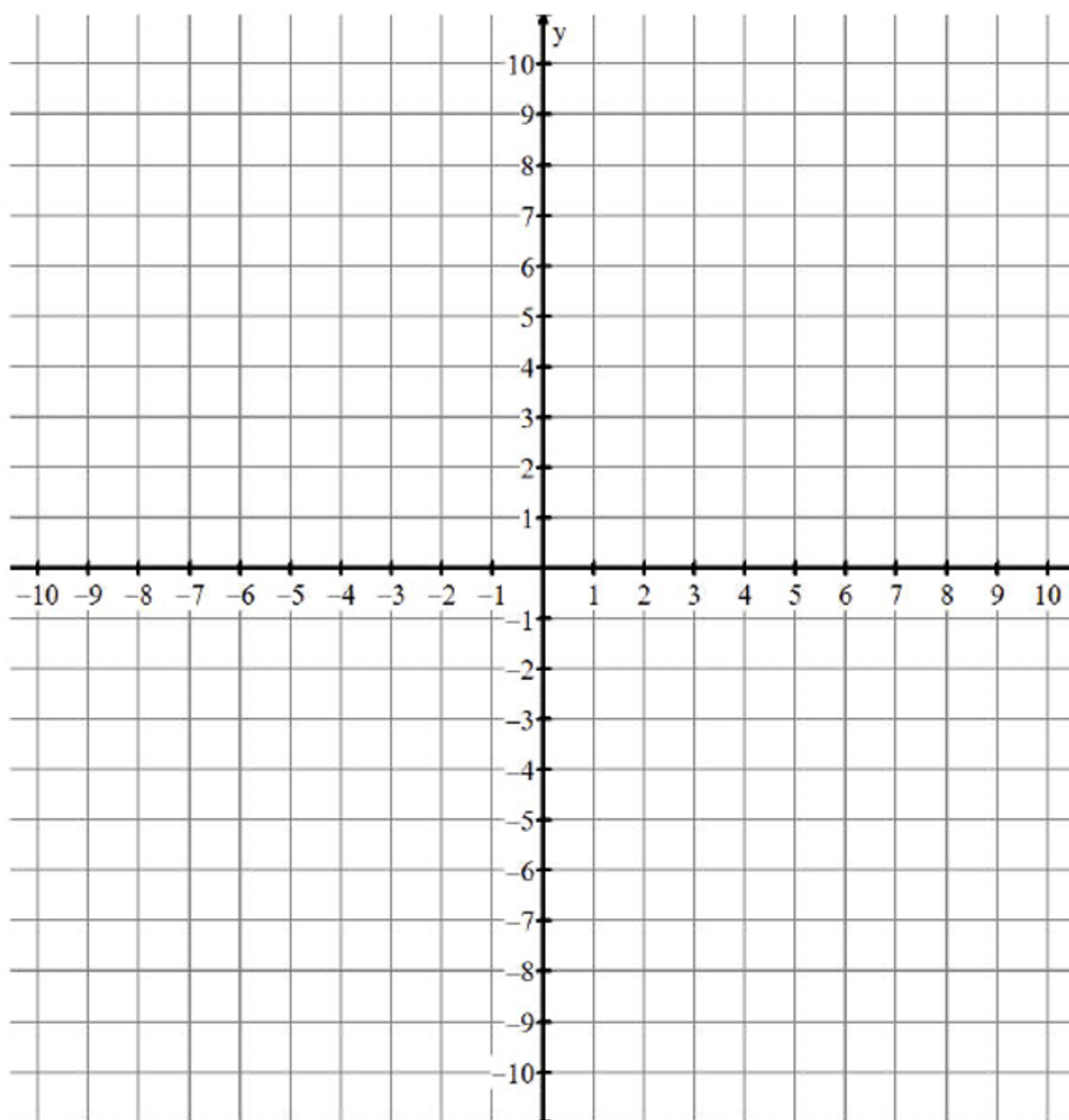
Graph the following equations:

A. $y = -4x + 1$

B. $y = \frac{2}{7}x - 2$

C. $y = -\frac{5}{3}x + 7$

D. $y = \frac{3}{5}x - 7$



Solve the following problems.

1. Yianni raked 3 bags of leaves in 15 minutes. How long would it take him to rake 5 bags?
2. Dr. P drove 110 miles and used 5 gallons of gas. How many miles can she travel with 16 gallons of gas?
3. Marissa ran 1.5 miles in 17 minutes. If she continues at this pace how long will it take her to run 10 miles?
4. Jaime earned \$25 for babysitting for 3 hours. If they always charge the same rate, how much will they earn for 7 hours of babysitting?

Write the equation for the line connecting each pair of points.

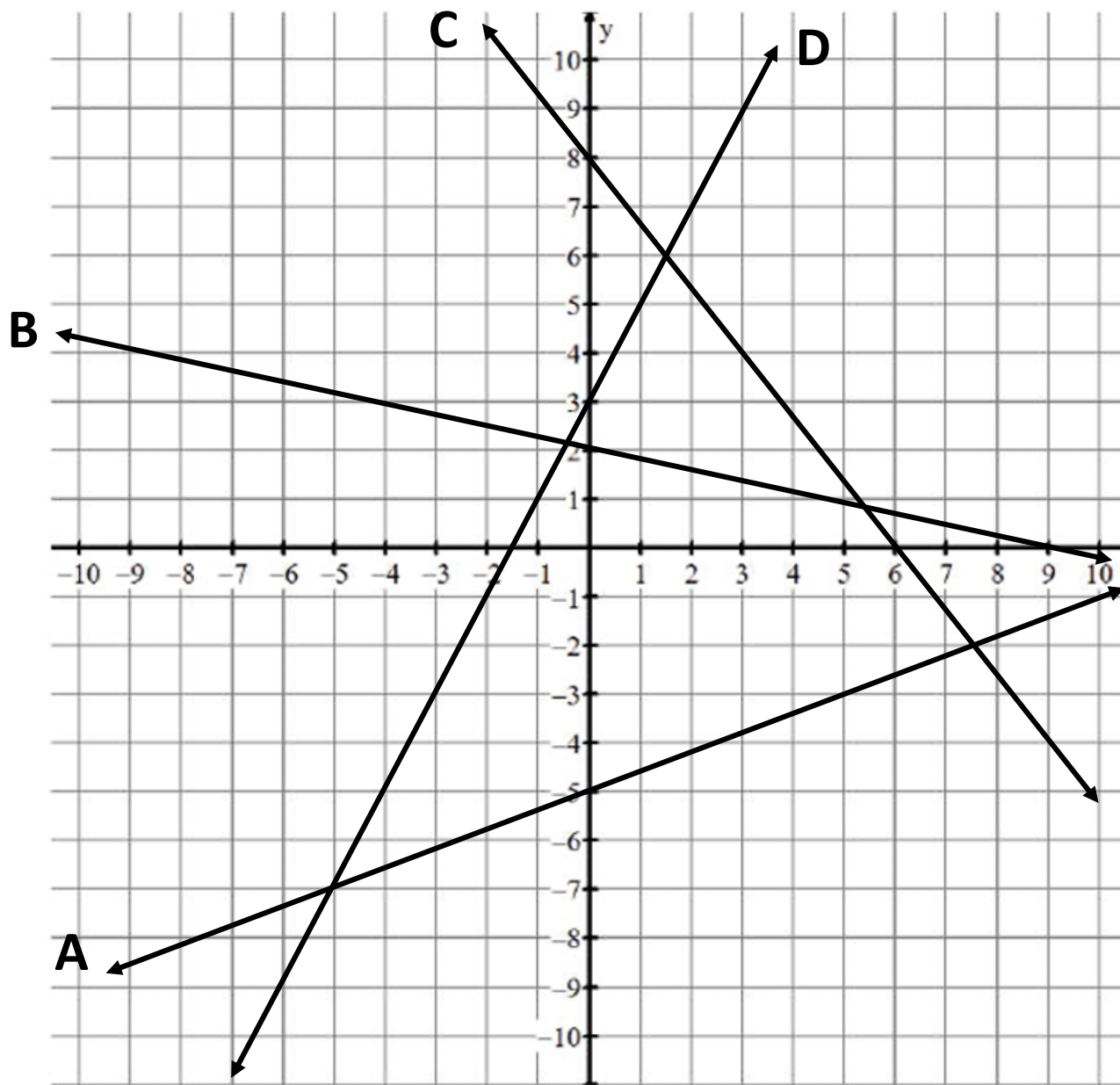
1. $(3, 1)$ and $(9, 5)$

2. $(1, 1)$ and $(-2, 7)$

3. $(-4, -3)$ and $(8, 0)$

4. $(-1, 4)$ and $(-4, -5)$

Write the equations of the lines plotted on the graph below.



A.

B.

C.

D.