

LESSON
8-2

Solving Systems by Substitution

Practice and Problem Solving: A/B

Solve each system by substitution. Check your answer.

1.
$$\begin{cases} y = x - 2 \\ y = 4x + 1 \end{cases}$$

(_____, _____)

2.
$$\begin{cases} 2x - y = 6 \\ x + y = -3 \end{cases}$$

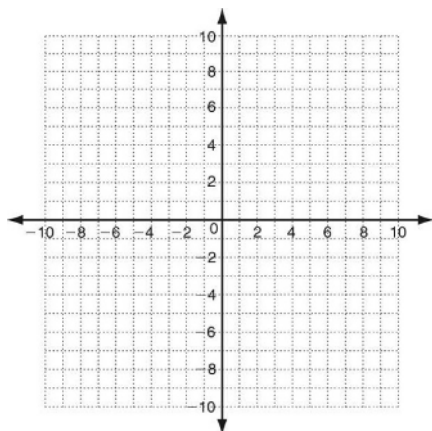
(_____, _____)

3.
$$\begin{cases} 3x - 2y = 7 \\ x + 3y = -5 \end{cases}$$

(_____, _____)

Estimate the solution of each system by sketching its graph.

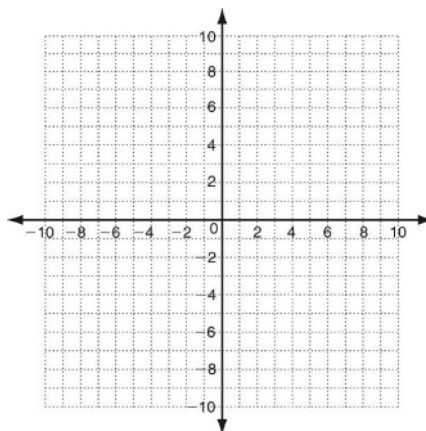
4.
$$\begin{cases} y = -4x + 5 \\ 3x + 2y = 0 \end{cases}$$



Estimated solution:

(about _____, about _____)

5.
$$\begin{cases} 3x = -y + 10 \\ 2x + 3y = -12 \end{cases}$$



Estimated solution:

(about _____, about _____)

6. A sales associate in a department store earns a commission on each suit and each pair of shoes sold. One week, she earned \$47 in commission for selling 3 suits and a pair of shoes. The next week, she earned \$107 in commission for selling 7 suits and 2 pairs of shoes. How much commission does she earn for selling each suit and each pair of shoes? Solve by substitution.
