

4. Solve the equation. Show all your steps.

$$12(x - 5) + 28 = 4(x - 22)$$

$$x = -7$$

5. Convert 64 meters per second into miles per hour. Which of the following conversions would not be used to solve this problem? Circle your answer.

a. $\frac{1 \text{ hour}}{60 \text{ minutes}}$

b. $\frac{1 \text{ mile}}{1609 \text{ meters}}$

c. $\frac{64 \text{ meters}}{1 \text{ second}}$

d. $\frac{60 \text{ seconds}}{1 \text{ minute}}$

6. Solve the system of equations by substitution.

$$\begin{cases} y = 3x - 5 \\ 2x + 3y = 18 \end{cases}$$

$$(3, 4)$$

7. Solve by graphing to verify your answer for question 6 is correct.

$$\begin{cases} y = 3x - 5 \\ 2x + 3y = 18 \end{cases}$$

$$(3, 4)$$

