

## LESSON

**Practice C****6-2*****Solving Systems by Substitution***

Solve each system by substitution. Check your answer.

1. 
$$\begin{cases} y = x - 6 \\ y = 2x - 8 \end{cases}$$

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

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3. 
$$\begin{cases} y = 2x + 8 \\ y = 8 \end{cases}$$

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4. 
$$\begin{cases} x + y = -3 \\ x - y = -1 \end{cases}$$

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5. 
$$\begin{cases} 4x + 2y = -2 \\ y = 6x - 5 \end{cases}$$

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6. 
$$\begin{cases} \frac{1}{2}x = y - 1 \\ \frac{1}{3}x = y \end{cases}$$

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7. 
$$\begin{cases} 4x + y = 3.4 \\ x = 4y \end{cases}$$

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8. 
$$\begin{cases} x = -\frac{1}{4}y + 5 \\ 3x + 2y = 0 \end{cases}$$

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9. 
$$\begin{cases} 3x = -y + 10 \\ 2x + 3y = -12 \end{cases}$$

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**Solve.**

10. The sum of two numbers is 39. The greater number is 5 less than 3 times the smaller number. What are the two numbers?

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11. Adam has dimes and quarters in his pocket. There are 28 coins in all, and they are worth \$4.60 altogether. How many quarters does Adam have?

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12. At a pet store, Rhonda paid \$11.50 for 3 dog bowls and 4 bones. Kelly paid \$13 for 2 dog bowls and 8 bones. How much will Andrew pay for 4 dog bowls and 2 bones?

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