

Substitution with systems of equations

Name _____

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Date _____

Solve each system by substitution.

1) $-6x - 5y = 21$
 $4x + y = -21$

2) $-3x + y = 3$
 $7x + 2y = 19$

3) $4x + 4y = -8$
 $-8x + y = -11$

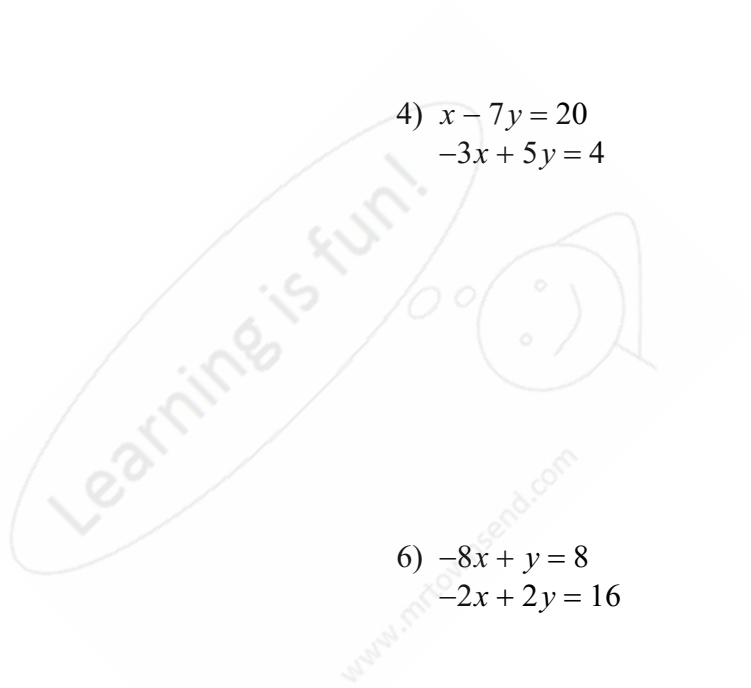
4) $x - 7y = 20$
 $-3x + 5y = 4$

5) $2x - 3y = 5$
 $-6x + y = 9$

6) $-8x + y = 8$
 $-2x + 2y = 16$

7) $3x + y = 16$
 $4x - 6y = -8$

8) $4x - y = 18$
 $y = -6$



$$\begin{aligned} 9) \quad & -3x + y = 0 \\ & 7x - 7y = -14 \end{aligned}$$

$$\begin{aligned} 10) \quad & -3x + 2y = 14 \\ & 2x + y = -7 \end{aligned}$$

$$\begin{aligned} 11) \quad & x - 5y = 11 \\ & 4x + 3y = 21 \end{aligned}$$

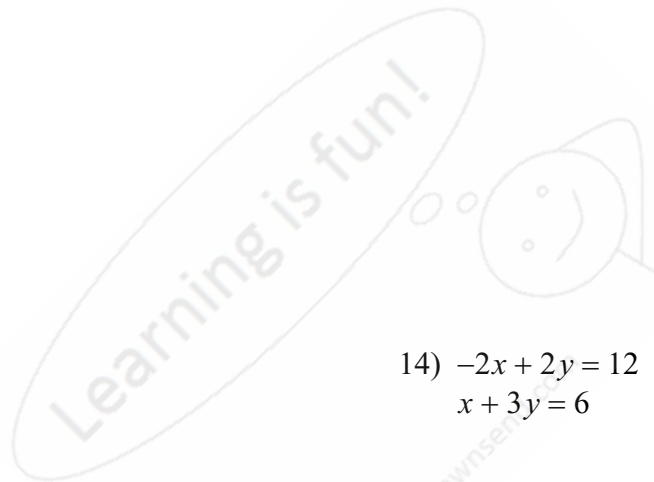
$$\begin{aligned} 12) \quad & -3x - 6y = 9 \\ & 5x + y = 21 \end{aligned}$$

$$\begin{aligned} 13) \quad & 2x + y = 13 \\ & -x - 6y = -23 \end{aligned}$$

$$\begin{aligned} 14) \quad & -2x + 2y = 12 \\ & x + 3y = 6 \end{aligned}$$

$$\begin{aligned} 15) \quad & 4x - 7y = -15 \\ & x - 7y = -9 \end{aligned}$$

$$\begin{aligned} 16) \quad & x - 4y = 14 \\ & 6x + 8y = 20 \end{aligned}$$



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Answers to Substitution with systems of equations

- | | | | |
|---------------|---------------|---------------|---------------|
| 1) $(-6, 3)$ | 2) $(1, 6)$ | 3) $(1, -3)$ | 4) $(-8, -4)$ |
| 5) $(-2, -3)$ | 6) $(0, 8)$ | 7) $(4, 4)$ | 8) $(3, -6)$ |
| 9) $(1, 3)$ | 10) $(-4, 1)$ | 11) $(6, -1)$ | 12) $(5, -4)$ |
| 13) $(5, 3)$ | 14) $(-3, 3)$ | 15) $(-2, 1)$ | 16) $(6, -2)$ |

