

**Assignment**

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**Solve each system by elimination.**

1) 
$$\begin{aligned}x + 6y &= -3 \\ -2x - 6y &= 6\end{aligned}$$

2) 
$$\begin{aligned}3x - 4y &= 0 \\ -3x + 6y &= 6\end{aligned}$$

3) 
$$\begin{aligned}4x + y &= 18 \\ 3x - y &= 3\end{aligned}$$

4) 
$$\begin{aligned}-x + y &= 10 \\ -6x - y &= 18\end{aligned}$$

$$\begin{aligned} 5) \quad & 2x + 5y = -11 \\ & -2x + 5y = 1 \end{aligned}$$

$$\begin{aligned} 6) \quad & -8x - 3y = 6 \\ & 16x + 9y = -18 \end{aligned}$$

$$\begin{aligned} 7) \quad & -4x + 10y = 24 \\ & -2x - y = 12 \end{aligned}$$

$$\begin{aligned} 8) \quad & -7x + 14y = 28 \\ & -9x + 7y = 14 \end{aligned}$$

$$\begin{aligned} 9) \quad & 7x - 3y = 7 \\ & -14x + 4y = -28 \end{aligned}$$

$$\begin{aligned} 10) \quad & -10x + 16y = -26 \\ & -x + 8y = 23 \end{aligned}$$

$$\begin{aligned} 11) \quad & 12x - 2y = -32 \\ & 5x - 5y = -5 \end{aligned}$$

$$\begin{aligned} 12) \quad & -8x - 7y = -7 \\ & -11x - 3y = -3 \end{aligned}$$

$$\begin{aligned} 13) \quad & -5x + 7y = 18 \\ & -4x + 3y = 30 \end{aligned}$$

$$\begin{aligned} 14) \quad & 5x - 5y = -30 \\ & -3x - 8y = 29 \end{aligned}$$

$$\begin{aligned} 15) \quad & 11x + 7y = -15 \\ & -12x - 8y = 16 \end{aligned}$$

$$16) 10x + 11y = -30$$

$$-3 = x - \frac{3}{4}y$$

$$17) 6x = 18y$$

$$x = \frac{4}{9}y$$

$$18) 0 = -4y + 44 + 14x$$

$$4x = 26 + 5y$$

$$19) 30 + 6y = -3x$$

$$y + \frac{2}{9}x = -\frac{5}{3}$$

20)  $11y = -4x + 8$   
 $10x = 20 + 2y$

21) How do you solve a system of equation by graphing?

22) How do you solve a system by substitution?

## Answers to Assignment (ID: 1)

- |                 |                 |                |               |
|-----------------|-----------------|----------------|---------------|
| 1) $(-3, 0)$    | 2) $(4, 3)$     | 3) $(3, 6)$    | 4) $(-4, 6)$  |
| 5) $(-3, -1)$   | 6) $(0, -2)$    | 7) $(-6, 0)$   | 8) $(0, 2)$   |
| 9) $(4, 7)$     | 10) $(9, 4)$    | 11) $(-3, -2)$ | 12) $(0, 1)$  |
| 13) $(-12, -6)$ | 14) $(-7, -1)$  | 15) $(-2, 1)$  | 16) $(-3, 0)$ |
| 17) $(0, 0)$    | 18) $(-6, -10)$ | 19) $(-12, 1)$ | 20) $(2, 0)$  |
- 21) The dot next to the choice indicates that it is the answer.
- 22) The dot next to the choice indicates that it is the answer.