

11.4 Practice

Date _____ Period _____

Solve each system by elimination (11.3)

$$\begin{aligned} 1) \quad x + 3y &= -8 \\ -x - 3y &= 8 \end{aligned}$$

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

$$\begin{aligned} 3) \quad -4x + 4y &= -4 \\ -4x - 2y &= -10 \end{aligned}$$

$$\begin{aligned} 4) \quad -8x + 3y &= -12 \\ -8x + 2y &= -16 \end{aligned}$$

Solve each system by elimination (11.4)

$$\begin{aligned} 5) \quad -9x - y &= -14 \\ -18x - 3y &= -24 \end{aligned}$$

$$\begin{aligned} 6) \quad 6x - 4y &= -26 \\ -2x - 6y &= 16 \end{aligned}$$

$$\begin{aligned} 7) \quad -18x + y &= 16 \\ 9x - 9y &= 9 \end{aligned}$$

$$\begin{aligned} 8) \quad -10x - 9y &= 6 \\ 2x - 3y &= 18 \end{aligned}$$

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

$$\begin{aligned} 10) \quad -5x - 5y &= 20 \\ x - 3y &= 28 \end{aligned}$$

$$\begin{aligned} 11) \quad x + 4y &= -5 \\ -6x - 8y &= -18 \end{aligned}$$

$$\begin{aligned} 12) \quad -8x + 12y &= 0 \\ 2x - 6y &= 0 \end{aligned}$$

$$\begin{aligned} 13) \quad 2x - 6y &= 2 \\ 4x + 4y &= 4 \end{aligned}$$

$$\begin{aligned} 14) \quad -6x - 4y &= 8 \\ -12x - 5y &= 28 \end{aligned}$$

$$\begin{aligned} 15) \quad -16x - 12y &= 20 \\ -8x - 6y &= 10 \end{aligned}$$

$$\begin{aligned} 16) \quad -2x + 6y &= 6 \\ -6x + 3y &= -27 \end{aligned}$$

$$\begin{aligned} 17) \quad -x + y &= -4 \\ 4x - 5y &= 10 \end{aligned}$$

$$\begin{aligned} 18) \quad 8x + y &= -7 \\ -2x - 10y &= -8 \end{aligned}$$

$$\begin{aligned} 19) \quad 6x + 9y &= 18 \\ 3x + y &= 9 \end{aligned}$$

$$\begin{aligned} 20) \quad -3x + 2y &= -5 \\ -x + y &= -3 \end{aligned}$$

$$\begin{aligned} 21) \quad -2x - y &= 26 \\ -4x + 3y &= 22 \end{aligned}$$

$$\begin{aligned} 22) \quad 10x - 6y &= -18 \\ 5x + 3y &= -21 \end{aligned}$$

$$\begin{aligned} 23) \quad 4x + 20y &= 4 \\ -x + 10y &= 29 \end{aligned}$$

$$\begin{aligned} 24) \quad 10x - 4y &= 8 \\ 4x - 12y &= 24 \end{aligned}$$

$$\begin{aligned} 25) \quad -4x + 12y &= 12 \\ -3x + 3y &= 3 \end{aligned}$$

$$\begin{aligned} 26) \quad -9x - y &= 12 \\ 18x + 4y &= -12 \end{aligned}$$

$$\begin{aligned} 27) \quad 12x - 6y &= -24 \\ 4x - 4y &= -28 \end{aligned}$$

$$\begin{aligned} 28) \quad 7x + y &= -10 \\ 14x - 10y &= 16 \end{aligned}$$

Answers to 11.4 Practice (ID: 1)

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|----------------------------------|---------------|----------------|-----------------|
| 1) Infinite number of solutions | 2) $(-5, -3)$ | 3) $(2, 1)$ | |
| 4) $(3, 4)$ | 5) $(2, -4)$ | 6) $(-5, -1)$ | 7) $(-1, -2)$ |
| 8) $(3, -4)$ | 9) $(-7, 4)$ | 10) $(4, -8)$ | 11) $(7, -3)$ |
| 12) $(0, 0)$ | 13) $(1, 0)$ | 14) $(-4, 4)$ | |
| 15) Infinite number of solutions | 16) $(6, 3)$ | 17) $(10, 6)$ | |
| 18) $(-1, 1)$ | 19) $(3, 0)$ | 20) $(-1, -4)$ | 21) $(-10, -6)$ |
| 22) $(-3, -2)$ | 23) $(-9, 2)$ | 24) $(0, -2)$ | 25) $(0, 1)$ |
| 26) $(-2, 6)$ | 27) $(3, 10)$ | 28) $(-1, -3)$ | |