

$$\begin{array}{l}
 \text{b. } 7(3x - 4y = 10) \Rightarrow 21x - 28y = 70 \\
 4(5x + 7y = 3) \Rightarrow 20x + 28y = 12 \\
 \hline
 5(2) + 7y = 3 \\
 10 + 7y = 3 \\
 -10 \qquad -10 \\
 \hline
 7y = -7 \\
 \frac{7y}{7} = \frac{-7}{7} \\
 y = -1 \\
 \\
 41x + 0y = 82 \\
 \frac{41x}{41} = \frac{82}{41} \\
 x = 2 \\
 \\
 (2, -1)
 \end{array}$$

$$\begin{array}{r}
 7(6x + 2y = 2) \rightarrow 42x + 14y = 14 \\
 -2(4x + 7y = 24) \rightarrow \underline{-8x - 14y = -48} \\
 \hline
 4(-1) + 7y = 24 \\
 -4 + 7y = 24 \\
 +4 \qquad \qquad +4 \\
 \hline
 7y = 28 \\
 \frac{7y}{7} = \frac{28}{7} \\
 y = 4
 \end{array}
 \qquad
 \begin{array}{r}
 \rightarrow \underline{-8x - 14y = -48} \\
 34x + 0y = -34 \\
 \hline
 34x = -34 \\
 \frac{34x}{34} = \frac{-34}{34} \\
 x = -1
 \end{array}$$

$(-1, 4)$

p. 335 (15, 20-23)
Use elimination

$$\begin{array}{l}
 \textcircled{6} \quad \textcircled{12} \\
 3(2x + 3y = 1) \rightarrow 6x + 9y = 3 \\
 2(-3x - 4y = 0) \rightarrow \frac{-6x - 8y = 0}{0x + 1y = 3} \\
 \qquad \qquad \qquad y = 3 \\
 2x + 3(3) = 1 \\
 2x + 9 = 1 \\
 \quad -9 \quad -9 \\
 \hline
 2x = -8 \\
 \quad \frac{2}{2} \quad \frac{-8}{2} \\
 \quad x = -4 \\
 \qquad \qquad \qquad (-4, 3)
 \end{array}$$

$$\begin{array}{r} \textcircled{15} \quad \textcircled{2} \\ 3x + 2y = 5 \rightarrow \\ 5x - 2y = 7 \end{array}$$

$$8x + 0y = 12$$

$$\frac{8x}{8} = \frac{12}{8}$$

$$x = \frac{3}{2}$$

$$\left(\frac{3}{2}, \frac{1}{4}\right)$$

$$3\left(\frac{3}{2}\right) + 2y = 5$$

$$\frac{9}{2} + 2y = 5 \rightarrow \frac{10}{2}$$

$$\frac{-9}{2} \quad \frac{-9}{2} \quad \frac{-9}{2}$$

$$\frac{1}{2} \cdot 2y = \frac{1}{2} \cdot \frac{1}{2}$$

$$y = \frac{1}{4}$$