

(12)

$$\frac{x}{3} - \frac{1}{2} = \frac{4}{3} \quad \text{multiplier 6}$$

$$4x - y = 8$$

$$6\left(\frac{x}{3}\right) + 6\left(-\frac{1}{2}\right) = 6\left(\frac{4}{3}\right)$$

$$4x - y = 8$$

$$2x - 3 = 2y$$

$$4x - y = 8$$

$$\boxed{\begin{array}{l} 2x - 2y = 3 \\ 4x - y = 8 \end{array}}$$

multiplier 2

$$\begin{array}{l} 2x - 2y = 3 \\ -8x + 2y = -16 \end{array}$$

$$-6x = -13$$

$$x = \frac{-13}{-6}$$

$$x = \frac{13}{6}$$

$$4x - y = 8$$

$$4\left(\frac{13}{6}\right) - y = 8$$

$$\frac{26}{3} - y = 8$$

$$\frac{26}{3} - 8 = y$$

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

$$\left(\frac{13}{6}, \frac{2}{3}\right)$$

$$\begin{bmatrix} 2 & -2 & 3 \\ 4 & -1 & 8 \end{bmatrix}$$