

5

$$5x + 3y = 39 \quad (1)$$

$$8x - 2y = 42 \quad (2)$$

$$5x + 3y + (-5x) = 39 + (-5x) \quad (1) \text{ add } -5$$

$$3y = 25x + 39$$

$$\frac{3y}{3} = \frac{-5x + 39}{3} \quad (\text{divid by } 3)$$

$$y = -\frac{5}{3}x + 13$$

$$y = -\frac{5}{3}x + 13$$

6

$$8x - 2(-\frac{5}{3}x + 13) = 42$$

$$\frac{34}{3}x - 26 = 42$$

$$\frac{34}{3}x - 26 + (26) = 42 + (26)$$

$$\frac{34}{3}x = 68$$

Substitute in $y = -\frac{5}{3}x + 13$

$$34x$$

$$\frac{3}{3} = \frac{68}{34/3}$$

$$y = -\frac{5}{3}x + 13$$

$$\frac{34}{3} = \frac{68}{34/3}$$

$$y = -10 + 13$$

$$x = 6$$

$$y = 3$$