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Time 15:00

Barry Bradshaw 1909431

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ACHA3000

$$\begin{aligned} 5) \quad 5x + 3y &= 39 \\ 8x - 2y &= 42 \end{aligned}$$

$$\begin{aligned} 5x + 3y &= 39 \\ 5(6) + 3y &= 39 \end{aligned}$$

$$\begin{aligned} 5x + 3y &= 39 \quad (\times 2) \\ 8x - 2y &= 42 \quad (\times 3) \end{aligned}$$

$$(30) + 3y = 39$$

$$\begin{aligned} 10x + 6y &= 78 \\ -24x + 6y &= -126 \end{aligned}$$

$$3y = 39 - 30$$

$$3y = 9$$

$$(34)x = 204$$

$$y = \frac{9}{3}$$

$$x = \frac{204}{34}$$

$$y = 3$$

$$x = 6$$

$$x = 6, y = 3$$

check

$$8x - 2y = 42$$

$$8(6) - 2(3) = 42$$

$$48 - 6 = 42$$