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Lesson 97 - Advanced Substitution

Practice Problem:

$$\begin{cases} 3x - 5y = 11 \\ 2x - 4y = -6 \end{cases} \Rightarrow \frac{2x}{2} = \frac{4y-6}{2}$$

$$x = 2y - 3$$

$$3(2y-3) - 5y = 11$$
$$6y - 9 - 5y = 11$$
$$y = 20$$

$$x = 2 \cdot 20 - 3$$
$$= 37$$

$$(37, 20)$$

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