System of Equations (Elimination)

Each of the following systems has a solution. Determine the solution to the system by eliminating one of the variables.

1.
$$\begin{cases} x+3 = y \\ 3x+4y = 7 \end{cases}$$

2.
$$\begin{cases} 4x - 3y = 16\\ -2x + 4y = -2 \end{cases}$$

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$$3x + 4(x + 3) = 7 \\ 3x + 4x + 12 = 7 \\ 7x + 12 = 7 \\ 7x = -5 \\ x = -\frac{5}{7} \end{cases}$$

$$-\frac{5}{7} + 3 = y \\ \frac{16}{7} = y \\ \frac{16}$$

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