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Solve $2x + 3y = 5$

$5x - 3y = 2$ ★

~~$$\begin{array}{r} 2x + 3y = 5 \\ -3y \quad -3y \\ \hline 2x = -3y + 5 \\ \frac{2x}{2} = \frac{-3y + 5}{2} \\ x = \left[\frac{-3y}{2} + \frac{5}{2} \right] \end{array}$$~~

~~$2x + 3y = 5$
solve for y
still messy~~

~~$5x - 3y = 2$
messy! messy!~~

substitution
is messy ★

$$\begin{array}{r} 2x + 3y = 5 \\ +2 \quad +2 \\ \hline 2x + 3y + 2 = 7 \end{array}$$

$2x + 3y + 2 = 7$ ★

$$\begin{array}{r} 2x + 3y = 5 \\ 5x - 3y = 2 \\ \hline 7x = 7 \end{array}$$
 ←

$$\frac{7x}{7} = \frac{7}{7}$$

$x = 1$

$(1, 1)$

Eliminate
Elimination

$$\begin{array}{r} 2x + 3y = 5 \\ 2(1) + 3y = 5 \\ 2 + 3y = 5 \\ -2 \quad -2 \\ \hline 3y = 3 \end{array}$$

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

$y = 1$