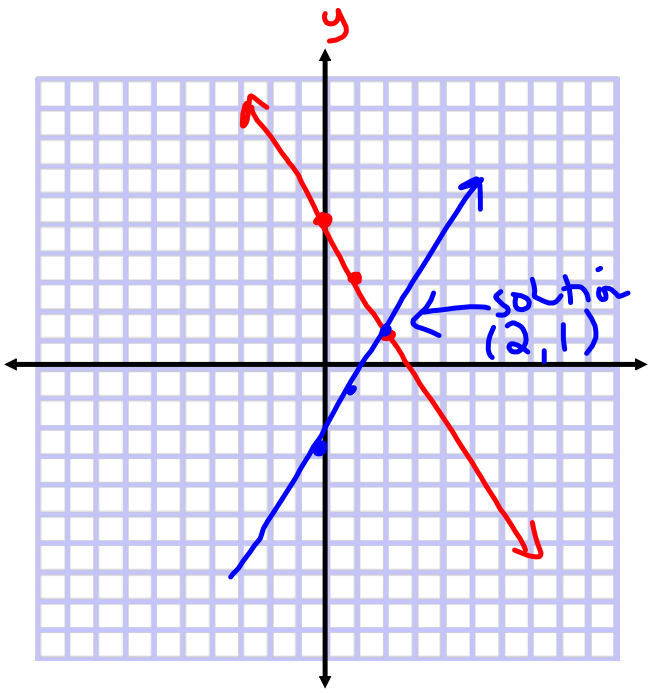

$2x + y = 5$

$y = mx + b$

slope, y-intercept

$y = -2x + 5$

slope $= \frac{-2}{1}$

$4x - 2y = 6$

$-2y = -4x + 6$

$\frac{-2y}{-2} = \frac{-4x}{-2} + \frac{6}{-2}$

$y = 2x - 3$

Substitution

1a) $7x - y = -10 \Rightarrow -y = -7x - 10$

$-7x + 5y = -6$ $\quad y = 7x + 10$

$-7x + 5(7x + 10) = -6$

$-7x + 35x + 50 = -6$

$-7x + 35x = -6 - 50$

$\frac{28x}{28} = \frac{-56}{28}$

$x = -2$

$y = 7(-2) + 10$

$y = -14 + 10$

$y = -4$