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Section 3.3

Graphing Lines

① Intercept method

$$3x - 5y = 15$$

x	y
0	-3
5	0
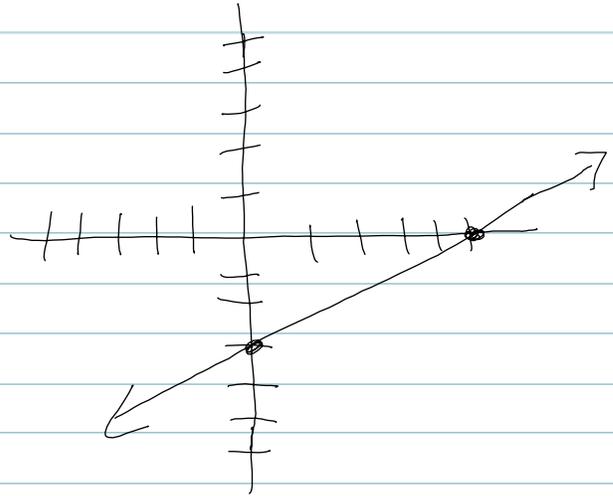
$x = 1$

$3(1) - 5y = 15$

$3 - 5y = 15$

$-5y = 12$

$y = \dfrac{12}{-5}$

$y = -2\,\dfrac{2}{5}$

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② Slope - Intercept Method

$3x - 5y = 15$ $y = mx + b$

$-5y = -3x + 15$

$y = \dfrac{-3}{-5} + \dfrac{15}{-5}$

$y = \dfrac{3x}{5} - 3$

$m = \dfrac{3}{5}$

$(0, -3)$