To put an equation in slope-intercept form, get y alone by performing inverse operations

Inverse Operations

Addition ↔ Subtraction

Multiplication ↔ Division

Squaring ↔ Squarerooting

Perform inverse operations in the reverse order of the order of ops.

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Examples

$3x - 2y = 7$

$-3x \quad -3x$

$\frac{-2y}{-2} = \frac{7}{-2} - \frac{3x}{-2}$

$y = -7/2 + 3/2x$

y-intercept, Slope

$14x - y = 2x + 3$

$-14x \quad -14x$

$\frac{-1y}{-1} = \frac{-12x}{-1} + \frac{3}{-1}$

$y = 12x - 3$

Slope, y-intercept

Standard Form of a Linear Equation

$$Ax + By = C$$

METHOD 1

Convert to Slope-Int. Form

$y = mx + b$ (slope, y-int.)

Step 1

Move your Ax term to the other side by adding or subtracting.

Step 2

Divide everything by B.

Step 3

Graph the y-intercept and use the slope to graph the line.

METHOD 2

Find and Graph x- and y-Intercepts

To find the x-intercept

Plug in 0 for y.

Solve for x.

To find the y-intercept

Plug in 0 for x.

Solve for y.

Graph your intercepts and connect the dots!