

Standard Form of a Line

The standard form of the equation of a line is written as: $Ax + By = C$

where A , B , and C are real numbers, $A \geq 0$, and both A and B do not equal zero.

For Standard Form, be sure the x coefficient (the A), if present, is positive.

Rewrite $y = \frac{2}{3}x + 4$ in Standard Form.

$$y = \frac{2}{3}x + 4$$

$$3y = 2x + 12$$

$$-2x + 3y = 12$$

$$\text{Standard Form: } 2x - 3y = -12$$

TRY: Rewrite $5x + 8 = -2y$ in Standard Form.

Write the equation of line L with slope $\frac{5}{4}$ and y-intercept $(0, -5)$ in Slope-intercept form first, then write it in Standard Form.