

WRITING EQUATIONS FROM STANDARD FORM

DIFFERENT FORMS OF LINEAR EQUATIONS

STANDARD FORM:

$$Ax + By = C$$

SLOPE-INTERCEPT FORM:

$$y = mx + b$$

STANDARD FORM TO SLOPE INTERCEPT FORM

GOAL: Get y by itself

STEPS FOR SOLVING FOR Y:

$$Ax + By = C$$

1. Move the x term to the other side

$$By = -Ax + C$$

2. Divide both sides by B

$$y = \frac{A}{B}x + \frac{C}{B}$$

EXAMPLES

$$-16x + 8y = 24$$

$$8y = \underline{\hspace{2cm}}$$

$$y = \frac{\hspace{1cm}}{8}x + \frac{\hspace{1cm}}{8}$$

$$y = \underline{\hspace{1cm}}x + \underline{\hspace{1cm}}$$

$$6x - 7y = 21$$

$$-7y = \underline{\hspace{2cm}}$$

$$y = \frac{\hspace{1cm}}{-7}x + \frac{\hspace{1cm}}{-7}$$

$$y = \frac{\hspace{1cm}}{-7}x - \underline{\hspace{1cm}}$$

$$4x - 3y = 19$$

$$-3y = \underline{\hspace{2cm}}$$

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

$$y = \frac{\hspace{1cm}}{3}x - \frac{\hspace{1cm}}{3}$$