

Objective 2 - Converting between linear forms

Converting between Slope-Intercept form and Standard form.

[Link to section in online textbook.](#)

First, watch [this video](#) to learn about the different forms we usually write linear functions in. This objective will focus on converting between Slope-Intercept form and Standard form.

Question 1 Convert the linear function below from Standard form to Slope-Intercept form.

$$5x - 8y = -4$$

$$y = \boxed{0.625}x + \boxed{0.5}$$

Question 2 Convert the linear function below from Standard form to Slope-Intercept form.

$$7x + 4y = -4$$

$$y = \boxed{-1.75}x + \boxed{-1.0}$$

Question 3 Convert the linear function below from Slope-Intercept form to Standard form.

$$y = -\frac{5}{8}x - \frac{7}{3}$$

Hint: What do we know about the coefficients in Standard Form? Is there anything special about the coefficient for x ?

$$\boxed{15}x + \boxed{24}y = \boxed{-56}$$

Learning outcomes: Recognize and construct linear functions as well as solve linear equations.

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Question 4 Convert the linear function below from Slope-Intercept form to Standard form.

$$y = \frac{7}{4}x + \frac{3}{8}$$

Hint: What do we know about the coefficients in Standard Form? Is there anything special about the coefficient for x ?

$$\boxed{14}x + \boxed{-8}y = \boxed{-3}$$
