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.*

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

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

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

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

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

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?*

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