

Objective 3 - Convert between a linear equation and its graph.

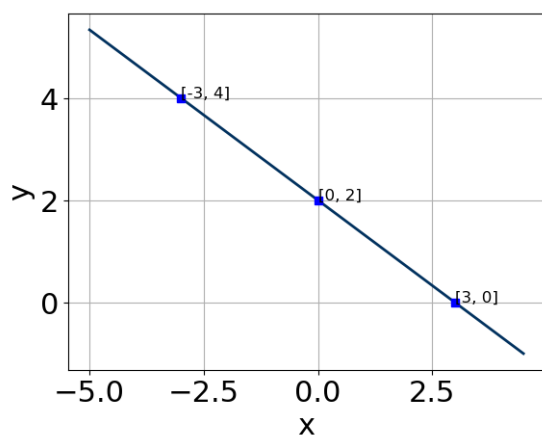
Objective 3 - Convert between a linear equation and its graph.

Constructing the linear equation based on its graph.

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

First, watch [this video](#) to learn how to convert from a graph to its linear function.

Question 1 Write the equation of the line in the graph below in Slope-Intercept form and in Standard form.



Slope-Intercept form: $y = \boxed{-2/3}x + \boxed{2}$

Standard form: $\boxed{2}x + \boxed{3}y = \boxed{6}$

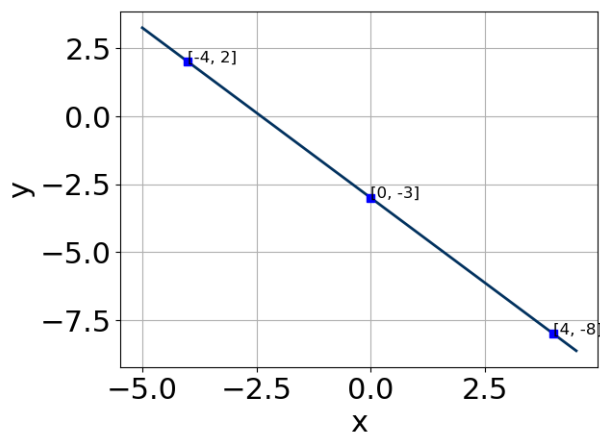
Hint: What do we know about the coefficients in Standard Form? Is there anything special about the coefficient for x ?

Question 2 Write the equation of the line in the graph below in Slope-Intercept form and in Standard form.

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

Author(s): Darryl Chamberlain Jr.

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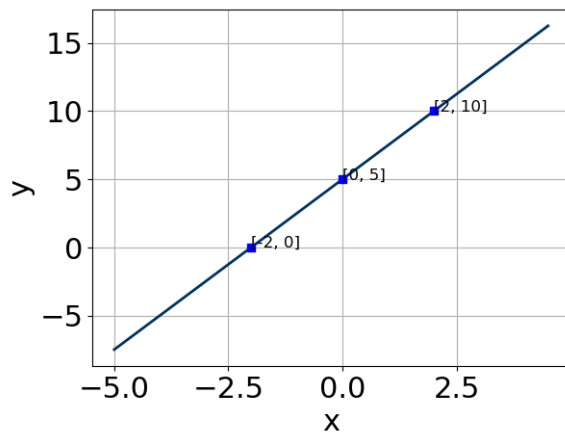


Slope-Intercept form: $y = \boxed{-5/4}x + \boxed{-3}$

Standard form: $\boxed{5}x + \boxed{4}y = \boxed{-12}$

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

Question 3 Write the equation of the line in the graph below in Slope-Intercept form and in Standard form.



Slope-Intercept form: $y = \boxed{5/2}x + \boxed{5}$

Standard form: $\boxed{5}x + \boxed{-2}y = \boxed{-10}$

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

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