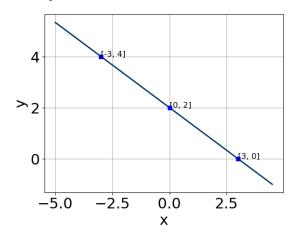
Objective 3 - Convert between a linear equation and its graph.

Constructing the linear equation based on its graph.

Link to section in online textbook.

First, watch $\underline{\text{this video}}$ 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: $y = \sqrt{-2/3}x + \sqrt{2}$

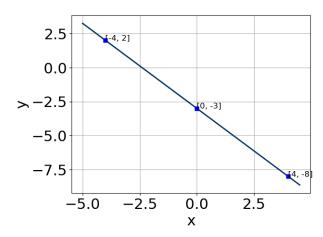
Standard form: 2x + 3y = 6

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

Author(s): Darryl Chamberlain Jr.

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

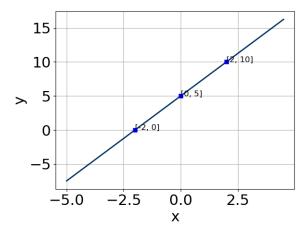
Objective 3 - Convert between a linear equation and its graph.



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

Standard form: 5x + 4y = -12

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



Slope-Intercept form: y = 5/2 x + 5

Standard form: 5x + -2y = -10