

Name: \_\_\_\_\_

Date: \_\_\_\_\_

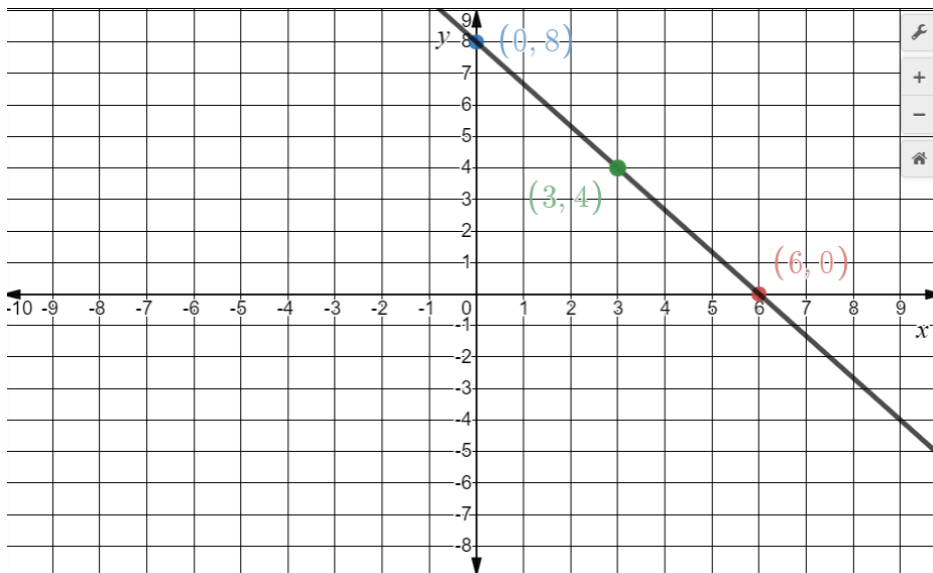
**Learning Goal 4.3**

I can write an equation to represent a graph.

This is extra practice on the trickier part of Learning Goal 4.3. For each graph, find

- the equation of the line in slope-intercept form (UNIQUE ANSWER),
- the equation of the line in slope-point form (INFINITE ANSWERS), and
- the equation of the line in standard form (INFINITE ANSWERS).

1.



Slope – Intercept

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

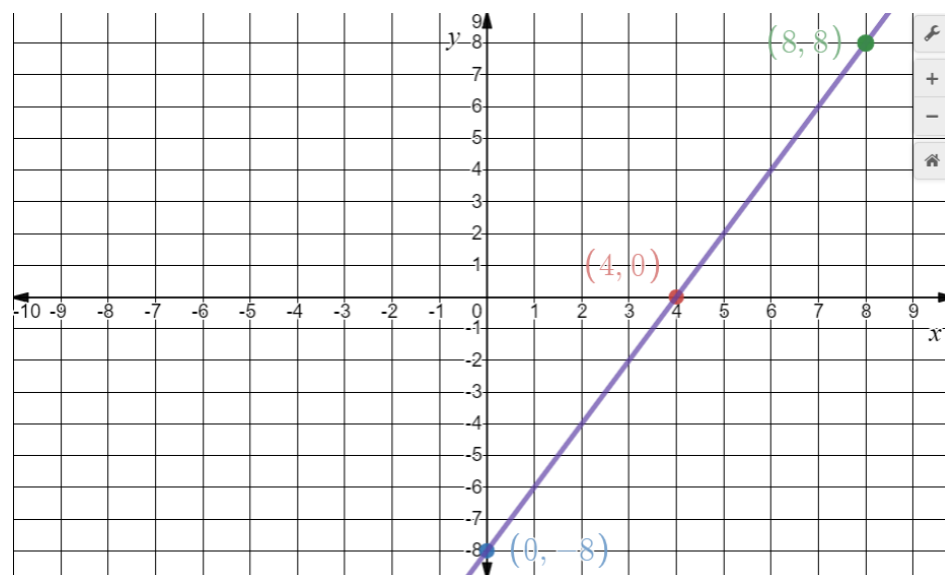
Slope – Point 4

$$y - 4 = -\frac{4}{3}(x - 3)$$

Standard

$$4x + 3y = 24$$

2.



Slope – Intercept

$$y = 2x - 8$$

Slope – Point 4

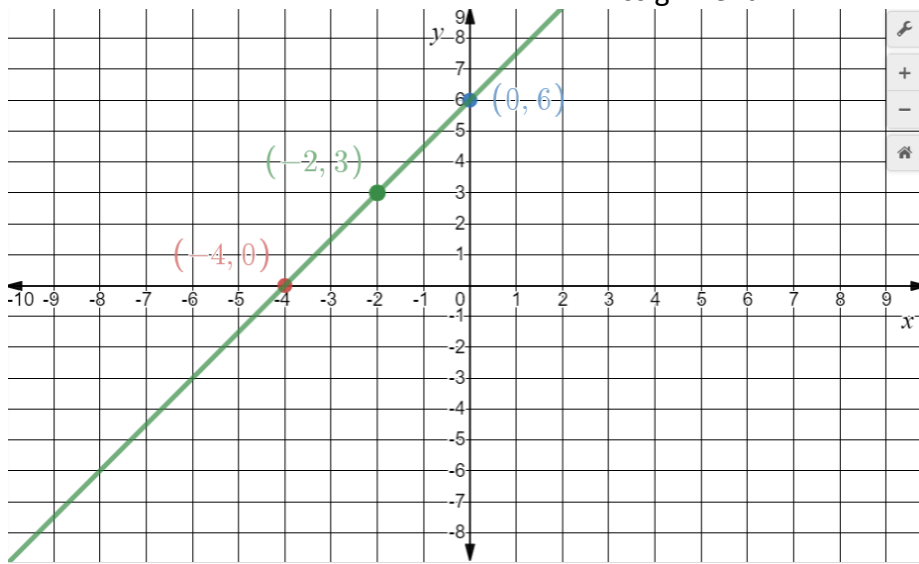
$$y - 8 = 2(x - 8)$$

Standard

$$2x - y = 8$$

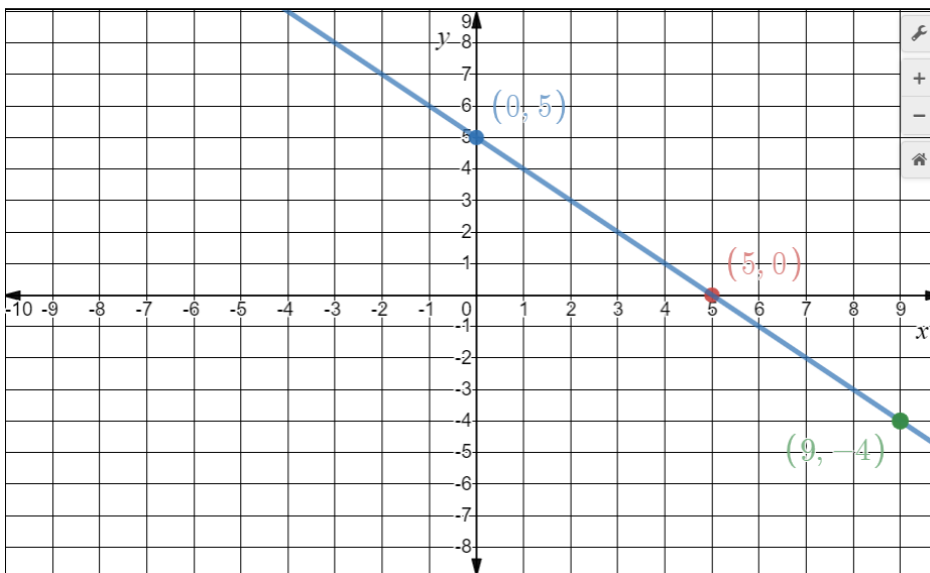
Assignment

3.



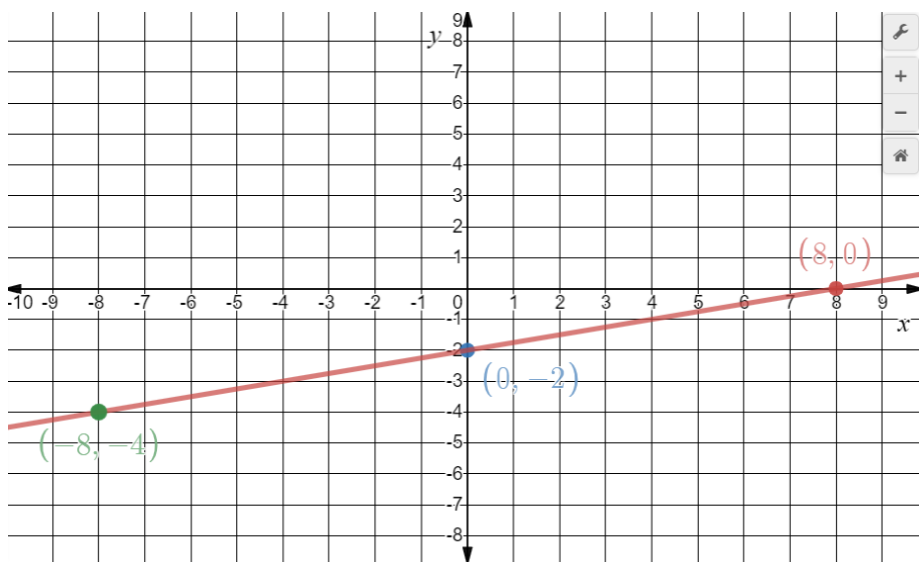
Slope – Intercept $y = \frac{3}{2}x + 6$
Slope – Point 4 $y - 3 = \frac{3}{2}(x + 2)$
Standard $3x - 2y = -12$

4.



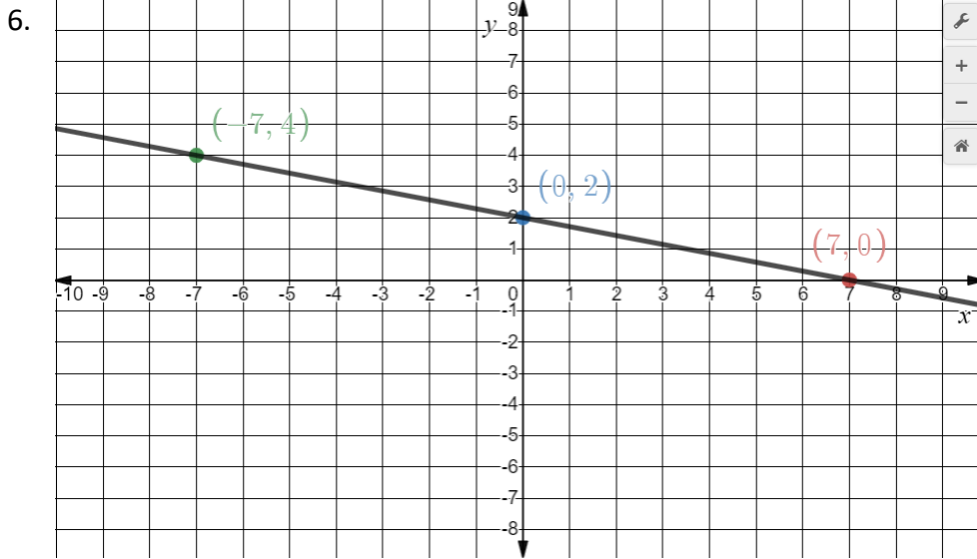
Slope – Intercept $y = -x + 5$
Slope – Point 4 $y + 4 = -(x - 9)$
Standard $x + y = 5$

5.

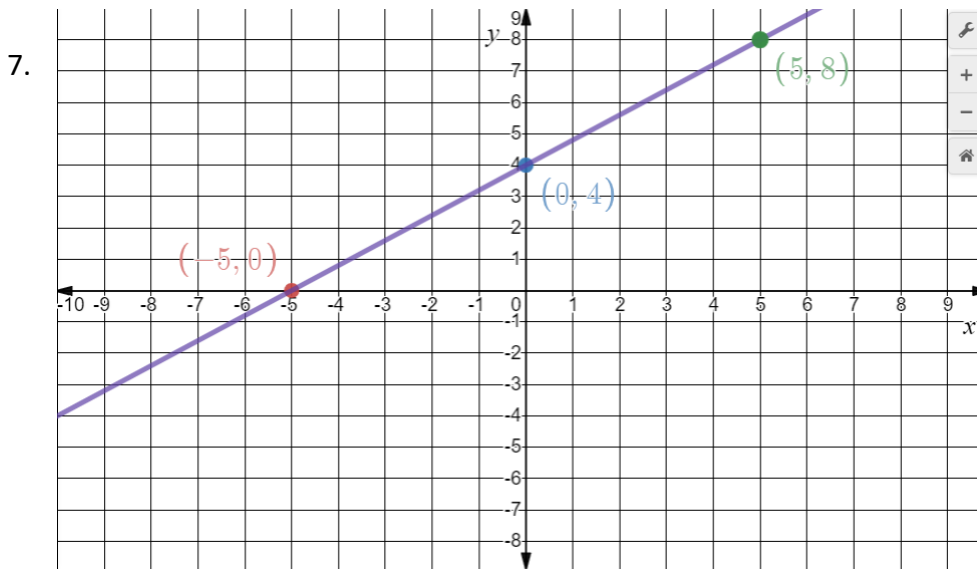


Slope – Intercept $y = \frac{1}{4}x - 2$
Slope – Point 4 $y + 4 = \frac{1}{4}(x + 8)$
Standard $x - 4y = 8$

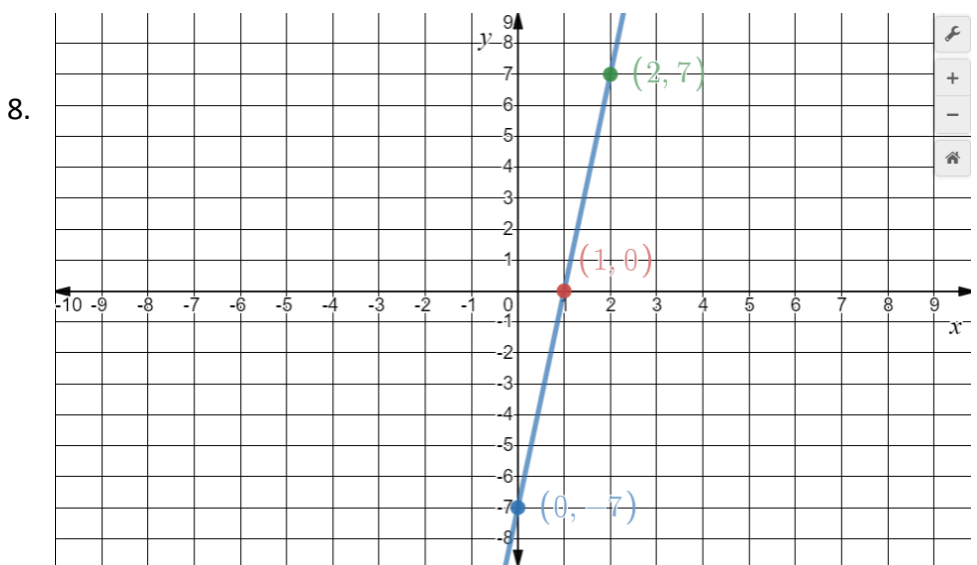
Assignment



Slope – Intercept
$y = -\frac{2}{7}x + 2$
Slope – Point 4
$y - 4 = -\frac{2}{7}(x + 7)$
Standard
$2x + 7y = 14$



Slope – Intercept
$y = \frac{4}{5}x + 4$
Slope – Point 4
$y - 8 = \frac{4}{5}(x - 5)$
Standard
$4x - 5y = -20$



Slope – Intercept
$y = 7x - 7$
Slope – Point
$y - 7 = 7(x - 2)$
Standard
$7x - y = 7$