Module 5 Lesson 3:
Try This 1 – 2 Possible Solutions

TT 1. a. The student can choose two convenient points on the graph—(2, 4) and (0, 1), for example. Use the slope formula to determine the slope.

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$
$$= \frac{4-1}{2-0}$$
$$= \frac{3}{2}$$

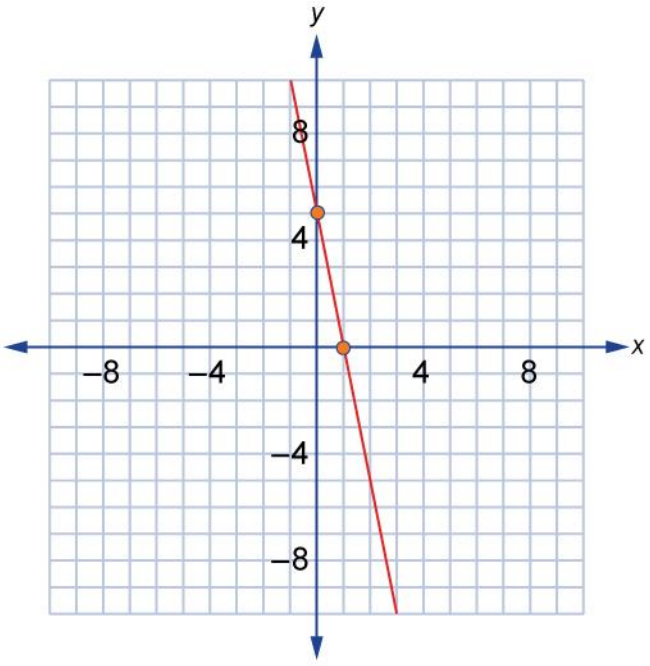
The slope is $\frac{3}{2}$.

From the graph, the *y*-intercept is 1.

b. The equation of a line is given in the form $y = mx + b$. Therefore, the equation of the line is $y = \frac{3}{2}x + 1$.

TT 2. a. In the equation $y = mx + b$, the slope is m and the *y*-intercept is b. Therefore, the slope is -4 and the *y*-intercept is 5.

b. The graph should look like the following.



c. Strategies may vary. A sample answer is given.

Plot the *y*-intercept at (0, 5). Then apply a slope of -4 to that point, namely moving 4 units down and 1 unit to the right. This shows the graph of a line that passes through the points
(0, 5) and (1, 1).