

Exercise 82

For the following exercises, for each linear equation, a. give the slope m and y -intercept b , if any, and b. graph the line.

$$6x - 5y + 15 = 0$$

Solution

Solve the given equation for y .

$$6x + 15 = 5y$$

$$\frac{6}{5}x + 3 = y$$

The general equation for a line is

$$y = mx + b.$$

Comparing the coefficients, we have

$$m = \frac{6}{5}$$

$$b = 3.$$

Below is a graph of the line.

