

A line goes through the point (2, 5) and has a slope of -3. Write the equation of this line in slope-intercept form.

Solution:

Using the general equation of line

$$y - y_0 = k(x - x_0)$$

We have

$$y - 5 = -3(x - 2)$$

$$y = -3x + 11$$

Answer: $y = -3x + 11$