

Exercise 20

Find the equation of a line with a y -intercept of $(0, 2)$ and slope $-\frac{1}{2}$.

Solution

Use the point-slope formula to obtain the equation of the line.

$$y - 2 = -\frac{1}{2}(x - 0)$$

$$y - 2 = -\frac{1}{2}x$$

$$y = -\frac{1}{2}x + 2$$