

Exercise 13

Find the x - and y -intercepts of the equation $2x + 7y = -14$.

Solution

To find the y -intercept, set $x = 0$ and solve for y .

$$2(0) + 7y = -14 \rightarrow 7y = -14 \rightarrow y = -2$$

Therefore, the y -intercept is $(0, -2)$. To find the x -intercept, set $y = 0$ and solve for x .

$$2x + 7(0) = -14 \rightarrow 2x = -14 \rightarrow x = -7$$

Therefore, the x -intercept is $(-7, 0)$.

