

Exercise 17

For the following exercises, find the x - and y -intercepts of each equation

$$7x + 2y = 56$$

Solution

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

$$7(0) + 2y = 56 \rightarrow 2y = 56 \rightarrow y = 28$$

Therefore, the y -intercept is $(0, 28)$. To find the x -intercept(s), set $y = 0$.

$$7x + 2(0) = 56 \rightarrow 7x = 56 \rightarrow x = 8$$

Therefore, the x -intercept is $(8, 0)$.

