

## Exercise 16

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

$$-2x + 5y = 20$$

### Solution

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

$$-2(0) + 5y = 20 \rightarrow 5y = 20 \rightarrow y = 4$$

Therefore, the  $y$ -intercept is  $(0, 4)$ . To find the  $x$ -intercept(s), set  $y = 0$ .

$$-2x + 5(0) = 20 \rightarrow -2x = 20 \rightarrow x = -10$$

Therefore, the  $x$ -intercept is  $(-10, 0)$ .

