

## Exercise 21

In Exercises 19–28, find any intercepts.

$$y = x^2 + x - 2$$

### Solution

To find the  $y$ -intercept, plug in  $x = 0$  to the function.

$$y = (0)^2 + (0) - 2 = -2$$

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

$$x^2 + x - 2 = 0$$

$$(x + 2)(x - 1) = 0$$

$$x = \{-2, 1\}$$

Therefore, the  $x$ -intercepts are  $(-2, 0)$  and  $(1, 0)$ .

