## Exercise 35

Given the function f(x) = 8 - 3x:

- (a) Evaluate f(-2).
- (b) Solve f(x) = -1.

## Solution

Evaluate the given function at x = -2.

$$f(-2) = 8 - 3(-2) = 8 + 6 = 14$$
  $\rightarrow$   $f(-2) = 14$ 

Plug in -1 for f(x) and solve the equation for x.

$$-1 = 8 - 3x$$
$$-1 - 8 = -3x$$
$$-9 = -3x$$
$$\frac{-9}{-3} = x$$

x = 3