

Exercise 286

For the following exercises, solve the logarithmic equation exactly, if possible.

$$\log_4(x + 5) = 0$$

Solution

The base is 4, the exponent is 0, and the result is $x + 5$.

$$4^0 = x + 5$$

Solve for x .

$$x + 5 = 1$$

$$x = -4$$