Exercise 287

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

$$\log(2x - 7) = 0$$

Solution

The base is 10, the exponent is 0, and the result is $2x - 7$.

$$10^0 = 2x - 7$$

Solve for x.

$$2x - 7 = 1$$

$$2x = 8$$

$$x = 4$$