

Exercise 2.11

- 1** State the universe and solve each of the following for x :
- | | |
|---|--|
| a $\log_3 (2x - 1) = 5$ | b $\log_{\sqrt{2}} x = -6$ |
| c $\log_3 (x^2 - 2x) = 1$ | d $\log_2 (x^2 + 3x + 2) = 1$ |
| e $\log_2 (1 + \frac{1}{x}) = 3$ | f $\log_2 (x - 1) + \log_2 3 = 3$ |
| g $\log (x^2 - 121) - \log (x + 11) = 1$ | h $\log_3 (x + 4) - \log_3 (x - 1)$ |
| i $\log (6x + 5) - \log 3 = \log 2 - \log x$ | j $\log x - \log 3 = \log 4 - \log (x + 4)$ |
| k $\log_3 (x + 1) + \log_3 (x + 3) = 1$ | l $\log_2 2 + \log_2 (x + 2) - \log_2 (3x - 5) = 3$ |
| m $\log_6 (x + 6) = 2$ | |
- 2** Apply the property of Equality for Logarithmic Equations to solve the following equations (Check that your solutions are valid):
- | | |
|---|--|
| a $\log_3 x + \log_3 5 = 0$ | b $\log_3 25 - 2\log_3 x = 0$ |
| c $\log_5 x + \log_5 (x + 1) = \log_5 2$ | d $\log 2^x - \log 16 = 0$ |
| e $\log_4 (3^{6(x+2)}) - \log_4 (9^{x+2}) = 0$ | f $\log_2 (x^2 - 9) - \log_2 (3 + x) = 2$ |

2.5 APPLICATIONS OF EXPONENTIAL AND LOGARITHMIC FUNCTIONS

As mentioned at the start of this unit, exponential and logarithmic functions are used in describing and solving a wide variety of real-life problems. In this section we will discuss some of their applications.

Example 1 Population Growth

- a** Suppose that you are observing the behaviour of cell duplication in a laboratory. In an experiment, you started with one cell and the cells doubled every minute.
- Write an equation to determine the number of cells after one hour.
 - Determine how long it would take for the number of cells to reach 100,000.
- b** Ethiopia has a population of around 80 million people, and it is estimated that the population grows every year at an average growth rate of 2.3%. If the population growth continues at the same rate;
- What will be the population after

• 10 years?	• 20 years?
-------------	-------------
 - How many years will it take the population to double? (Refer back to the opening problem)

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