Zoom In Maths Grade 12

Worksheet

Exercise 2

1. Rewrite each exponential equation in its equivalent logarithmic form.

1.1 $5^2 = 25$ **1.2** $2^3 = 8$ **1.3** $4^{-3} = \frac{1}{64}$ **1.4** $(\frac{1}{2})^{-4} = 16$

2. Sketch the graphs of the following logarithmic functions.

2.1 $y = \log_2 x$ **2.2** $y = \log_3 (x - 1) + 2$

3. Draw graphs of the following logarithmic functions on the same Cartesian plane.

3.1 $y = \log_2 x$ **3.2** $y = \log_3 x$ **3.3** $y = \log_5 x$ **3.4** $y = \log_{10} x$

4. Draw the graph of $y = y = \log_2(x) + 4$.