

2 Pure Mathematics 2 – Part 2 —Answers

Answers

2.1 (a) 4 (since $2^4 = 16$); (b) 3 (since $10^3 = 1000$).

2.2 $\log(6 \times 5) = \log 30$.

2.3 $3 \log x$.

2.4 $x \ln 3 = \ln 20$, so $x = \frac{\ln 20}{\ln 3} = 2.73$ (3 s.f.).

2.5 (a) 7; (b) 4.

2.6 Take logs: $(x+1) \ln 5 = \ln 100$, so $x+1 = \frac{\ln 100}{\ln 5} = 2.861 \dots$, giving $x = 1.86$ (3 s.f.).