

FURTHER LOGARITHMS

REVISION KIT—MATH FORM 3

Without using a calculator, solve for x in the equation

$$0.5^X \times 0.125^{1-X} = 32$$

SOLVE THE EQUATION BELOW. (3 MARKS)

$$7^{2x} - 8 \times 7^x + 7 = 0$$

USE LOGARITHMS CORRECT TO 4 DECIMAL PLACES TO EVALUATE. (3MKS)

$$\sqrt{\frac{0.3698 \sin 56}{2.548}}$$

Use logarithms to evaluate,

$$\sqrt[3]{\frac{(1.654)^2}{45.73 \times 0.56}}$$

In this question, show all the steps in your calculations, giving the answer each stage. Use logarithms correct to decimal places, to evaluate.

$$\frac{6.373 \log 4.948}{\sqrt{0.004636}}$$

Solve for x

$$(\log_3 x^2) - \frac{1}{2} \log_3 = \frac{3}{2}$$

Solve for x in $\log(7x-3) + 2 \log 5 = 2 + \log(x+3)$.