

PRACTICE SET

1

Answer all the questions.

Give non-exact numerical answers correct to 3 significant figure, or 1 decimal place in the case of angles in degrees, unless a different level of accuracy is specified in the question.

The use of an approved scientific calculator is expected, where appropriate.

You are reminded of the need for clear presentation in your answers.

The number of marks is given in brackets [] at the end of each question or part question.

PAPER I

1. Without using a calculator, find the positive root of the equation

$$(5 - 2\sqrt{2})x^2 - (4 + 2\sqrt{2})x - 2 = 0$$

giving your answer in the form $a + b\sqrt{2}$, where a and b are integers. [6]

2. (i) Express $\frac{x^3 - 2x^2 - x + 3}{x^2 - 2x + 1}$ as partial fractions. [5]

(ii) Hence, find $\int \frac{x^3 - 2x^2 - x + 3}{x^2 - 2x + 1} dx$. [2]

3. (a) Find the smallest value of the integer a for which $ax^2 - 8x + 3$ is positive for all values of x . [3]

(b) The equation of a curve is $y = x^3 + \frac{5}{2}x^2 - 2x + 1$. Find the set of values of x for which y is a decreasing function. [4]

4. It is given that $3^{2x} = 2^{1-x}$. Find

(i) the exact value of 18^{1-x} , [3]

(ii) the value of x . [2]

5. Find the coordinates of the stationary point of the curve $y = x^2 + \frac{1}{x^2}$ for $x > 0$, and determine the nature of the stationary point. [5]

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