PRACTICE SET



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

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

661

131

121

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

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

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

(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]

(ii) the value of x.

1

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