

Paper 3 Pure Mathematics 3 (P3)

Rithish

Balaadithya

1. Solve the inequality $|3 \ln x + 4| < |6 - \ln x|$, giving your answers in exact form. [4]

2. (a) It is given that $y = \frac{e^x - e^{-x}}{e^x + e^{-x}}$. Express x in terms of y . [5]

(b) Hence, find the value of x when $y = \frac{1}{3}$. [1]

3. (a) If $\frac{\cos x}{1 + \sin x} = \frac{1}{u}$, then prove that $\sin x = \frac{u^2 - 1}{u^2 + 1}$. [4]

(b) The angles θ and ϕ lie between 0° and 180° , and are such that

$$\tan(\theta - \phi) = 3 \quad \text{and} \quad \tan \theta + \tan \phi = 1$$

Find the possible values of θ and ϕ . [5]

4. A curve has equation $x^3 + y = xy$. The straight line with the equation $y + 3x + 1 = 0$ meets this curve at point A. [3]

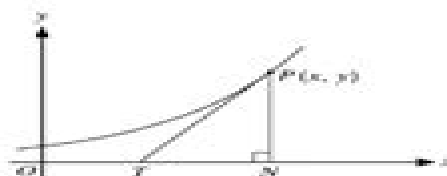
(a) Show that the x -coordinate of A lies in the interval $-0.4 < x < -0.3$.

(b) Use an iterative procedure based on the formula,

$$x_{n+1} = \frac{1}{2}(Px_n^2 + Qx_n^2 - 1)$$

where P and Q are constants to be found, to find the x -coordinate of A correct to 2 d.p. Give the result of each iteration to 5 d.p. [4]

5. In the diagram, the tangent to a curve at the point P with coordinates x, y meets the x -axis at T . The point N is the foot of the perpendicular from P to the x -axis. The curve is such that, for all values of x , the gradient of the curve is positive and $TN = 2$.



(a) Show that the differential equation satisfied by x and y is $\frac{dy}{dx} = \frac{1}{2}y$. [1]

The point with coordinates $(4, 3)$ lies on the curve.

(b) Solve the differential equation to obtain the equation of the curve, expressing y in terms of x . [5]

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