

MATHEMATICS T 954/2 – SET 2

SECTION A (45 Marks) : Answer all questions in this section.

1. Function f is defined by $f(x) = \begin{cases} ax^2 - 4 & , x < 2 \\ \ln(x-1) & , x \geq 2 \end{cases}$

Given that f' is continuous at $x = 2$.

(a) Find the value of a . [3]

(b) Determine whether f is continuous at $x = 2$. [3]

2. A piece of wire of length d units is cut into two pieces. One piece is bent to form a circle of radius r units, and the other piece is bent to form a regular hexagon. Prove that, as r varies, the sum of the areas enclosed by the two shapes is a minimum when the radius of the circle is approximately $0.076d$ units. [7]

3. Evaluate $\int_0^1 \frac{x}{\sqrt{1-x^2}} dx$. [3]

Hence, find the exact value of $\int_0^1 \sin^{-1} x dx$. [4]

4. Find the general solution of the differential equation $\frac{dy}{dx} - \frac{y}{x} = x \sec^2 x$. [5]

5. Given that $y = e^{\sin^{-1} x}$. Show that $(1-x^2) \frac{d^2 y}{dx^2} - x \frac{dy}{dx} = y$. [3]

By further differentiation of this result, find the Maclaurin's series for y in ascending powers of x up to and including the term in x^3 . [5]

Given that x is small, show that the first four terms of the series expansion for $\frac{e^{\sin^{-1} x}}{\cos x}$ is $1 + x + x^2 + \frac{5}{6} x^3$. [3]

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