

4. (a) Use method of variation of parameters to solve the equation

$$\frac{d^2y}{dx^2} + 5\frac{dy}{dx} + 6y = e^{-2x} \sec^2 x (1 + 2 \tan x) \quad (6)$$

(b) Solve $(3x+2)^2 \frac{d^2y}{dx^2} + 3(3x+2) \frac{dy}{dx} - 36y = 3x^2 + 4x + 1$ (7)

- (c) A triangular prism is formed by the planes whose equations are

$ay = bx$, $y=0$, $x=a$, obtain the volume of this prism between the

planes $z=0$ and the surface $z=c+xy$. (7)

5. (a) Evaluate $\int_{-1}^1 \int_0^x \int_{x-z}^{x+z} (x+y+z) dx dy dz$ (6)

(b) Solve $\frac{d^2y}{dx^2} - 4\frac{dy}{dx} + 4y = x^2 + e^x + \cos 2x$ (7)

(c) Solve $\frac{d^3y}{dx^3} - 3\frac{dy}{dx} + 2y = 2e^x \cos(x/2)$ (7)

6. (a) Using Euler's method, find the approximate value of y , when $x=1.5$ in five

steps, taking $h=0.1$. Given $\frac{dy}{dx} = \frac{y-x}{\sqrt{xy}}$ and $y(1)=2$. (6)

- (b) Find the mass of the lamina bounded by the curve $y^2 = ax$, $x^2 = ay$ where the mass per unit area varies as the square of the distance from the origin. (7)

- (c) Evaluate $\iint \sqrt{xy(1-x-y)} dx dy$ over the region $x \geq 0, y \geq 0, x+y \leq 1$ (7)

7. (a) Using Taylor's series method solve the equation $\frac{dy}{dx} = 2y + 3e^x$.

given $x_0 = 0, y_0 = 1$ at $x=0.1$ and $x=0.2$. (6)

- (b) In case of an elastic string which has one end fixed and a particle of

mass, m attached to other end, the equation of motion is,

$$m \frac{d^2x}{dt^2} = - \frac{mg}{l} (x - l) \quad , \text{ where } l \text{ is the natural length of the string}$$

and $x = l$ is in equilibrium due to weight mg . Find a steady state x as $x \rightarrow \infty$ as $t \rightarrow \infty$. (7)

$$y = \frac{1}{2} \cos x + \frac{1}{4} \cos 2x + \frac{1}{8} \cos 3x + \frac{1}{16} \cos 4x + \dots \quad (7)$$

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