

3. (a) Show that the set of functions $\cos nx$, $n = 1, 2, 3, \dots$ is orthogonal on $(0, 2\pi)$. 6
 (b) Use adjoint method to find the inverse of 6

$$\begin{bmatrix} -4 & -3 & -3 \\ 1 & 0 & 1 \\ 4 & 4 & 3 \end{bmatrix}, \text{ if exist.}$$

- (c) Find inverse Laplace transform of :— 8

(i) $\log \left(\frac{s^2 + a^2}{s^2 + b^2} \right)$

(ii) $e^{-4s} \frac{s}{(s+4)^3}$

4. (a) If $V = 3x^2y + 6xy - y^3$, show that V is harmonic and find its corresponding analytic function. 6

- (b) Find a, b, c , if $A = \frac{1}{9} \begin{bmatrix} -8 & 4 & a \\ 1 & 4 & b \\ 4 & 7 & c \end{bmatrix}$ is orthogonal. 6

- (c) Find Fourier series for $f(x) = \sqrt{1 - \cos x}$ in $(0, 2\pi)$ hence deduce that : 8

$$\frac{1}{2} = \sum_{n=1}^{\infty} \frac{1}{4n^2 - 1}.$$

5. (a) Solve the system of equations, if consistent, 6

$$x - 2y + 3z = 2$$

$$2x + y + z + t = 4$$

$$4x - 3y + z + 7t = 8.$$

- (b) Find inverse Laplace transform of $\frac{s^2}{(s^2 + a^2)(s^2 + b^2)}$ by using Convolution theorem. 6

- (c) Obtain Laurentz and Taylor's series expansion of $f(z) = \frac{(z+1)}{(z+2)(z+3)}$ indicating 8
 region of convergence.

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