

(a) Exactly two persons hit the target.

(b) At least two persons hit the target.

(x) Solve the differential equation :

$$(xy^2 + x)dx + (x^2y + y) dy = 0$$

QUESTION 2

(a) Using properties of determinants, prove that :

[5]

$$\begin{vmatrix} a & a+b & a+b+c \\ 2a & 3a+2b & 4a+3b+2c \\ 3a & 6a+3b & 10a+6b+3c \end{vmatrix} = a^3$$

(b) Find the product of the matrices A and B where :

[5]

$$A = \begin{pmatrix} -5 & 1 & 3 \\ 7 & 1 & -5 \\ 1 & -1 & 1 \end{pmatrix}, B = \begin{pmatrix} 1 & 1 & 2 \\ 3 & 2 & 1 \\ 2 & 1 & 3 \end{pmatrix} \text{ Hence, solve the following equations by}$$

matrix method :

$$x + y + 2z = 1$$

$$3x + 2y + z = 7$$

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

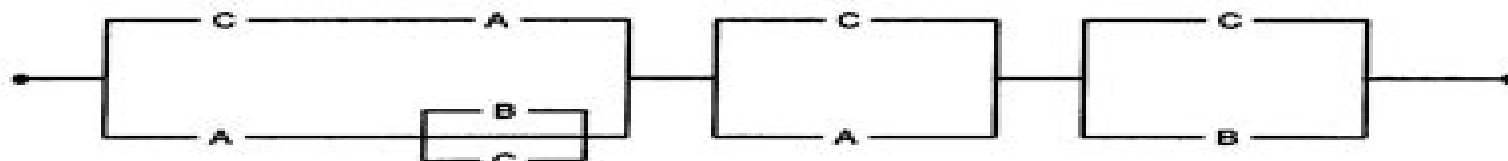
QUESTION 3

(a) Prove that : $\cos^{-1} \frac{63}{65} + 2 \tan^{-1} \frac{1}{5} = \sin^{-1} \frac{3}{5}$

[5]

(b) (i) Write the Boolean expression corresponding to the circuit give below :

[5]



(ii) Simplify the expression using laws of Boolean Algebra and construct the simplified circuit.

QUESTION 4

(a) Verify Rolle's theorem for the function :

[5]

$$f(x) = \log \left\{ \frac{x^2 + ab}{(a+b)x} \right\} \text{ in the interval } [a, b] \text{ where } 0 \notin [a, b]$$

(b) Find the equation of the ellipse with its centre at (4, -1) focus at (1, -1) and given that it passes through (8, 0).

[5]

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