

# Matrices and Determinants solved problems -1



# If  $|A|=7$  &  $A = \begin{bmatrix} a & b & c \\ x & y & z \\ p & q & r \end{bmatrix}$  then  $|(2A)^{-1}| = ?$

# If  $A, B, C, D$  are non-singular matrices of same order such that  $ABCD = I$  then  $B^{-1} = \underline{\hspace{2cm}}$ .

$$A = \begin{bmatrix} -1 & -2 & -2 \\ 2 & 1 & -2 \\ 2 & -2 & 1 \end{bmatrix}$$

$\text{Adj}(A)$

|   |    |    |    |    |
|---|----|----|----|----|
| M | 1  | -2 | -2 | 1  |
| L | -2 | 1  | -2 | -2 |
| F | 2  | 2  | -1 | 2  |
| M | 1  | -2 | -2 | 2  |

# Let  $M^4 = I$  ( $M \neq I, M^2 \neq I, M^3 \neq I$ ) then for some positive integer  $k$ ,  $M^{-1} = \underline{\hspace{2cm}}$ .

# If  $(a_{ij})_{3 \times 3}$  where  $a_{ij} = i^2 - j^2 \forall (i, j)$  then  $|A| = \underline{\hspace{2cm}}$ .

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**RC Schank**



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