

CS GATE 2014

If the matrix A is such that

$$A = \begin{bmatrix} 2 \\ -4 \\ 7 \end{bmatrix} \begin{bmatrix} 1 & 9 & 5 \end{bmatrix}$$

then the determinant of A is equal to

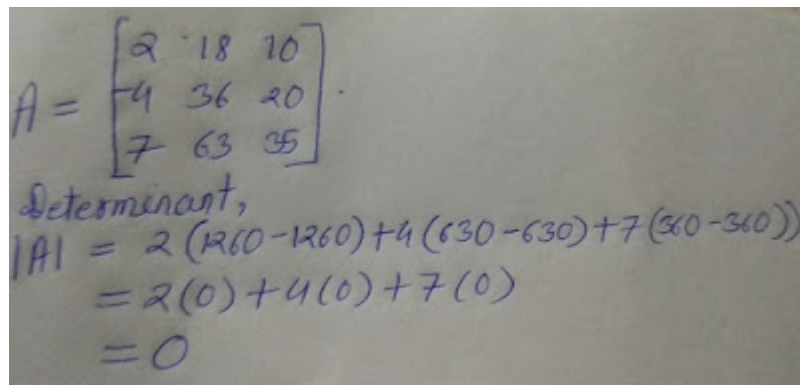
(A) 0

(B) 1

(C) 2

(D) 3

Sol.



Handwritten solution for the determinant of matrix A:

$$A = \begin{bmatrix} 2 & 18 & 10 \\ -4 & 36 & 20 \\ 7 & 63 & 35 \end{bmatrix}$$

Determinant,

$$|A| = 2(1260 - 1260) + 4(630 - 630) + 7(360 - 360)$$
$$= 2(0) + 4(0) + 7(0)$$
$$= 0$$

Related Posts:

2. Normal Forms
3. L-HOSPITAL RULE
4. Static Single Assignment

## 6. Birthday Attack