

## NCERT/CBSE MATHEMATICS CLASS 12 textbook

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MISCELLANEOUS EXERCISES

Answers to NCERT/CBSE MATH (Class XII) textbook

MATRICES

**14.** If the matrix  $A$  is both symmetric and skew symmetric, then

(A)  $A$  is a diagonal matrix

(B)  $A$  is a zero matrix

(C)  $A$  is a square matrix

(D) None of these

$A$  is a symmetric matrix

$$\Rightarrow A = A'$$

$A$  is a skew symmetric matrix

$$\Rightarrow A = -A'$$

$$\Rightarrow A' = -A$$

$$\Rightarrow 2A' = 0$$

$$\Rightarrow A' = 0$$

$$\Rightarrow A = 0$$

Answer(B)

Please do not copy the answer given here

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