

Quiz-6

Q.1 $(A^T)^{-1} = (A^{-1})^T$

(A) true (B) false (C) no conclusion (D) none of these

Q.2 If A is any real square matrix then $A - A^T$ is always symmetric.

(A) true (B) false (C) no conclusion (D) none of these

Q.3 If A is invertible then A^{-1} is invertible.

(A) true (B) false (C) no conclusion (D) none of these

Q.4 If A^T is invertible then A is invertible.

(A) true (B) false (C) no conclusion (D) none of these

Q.5 For what value of c, the following matrix is not invertible.

(A) true (B) false (C) no conclusion (D) none of these

$$A = \begin{bmatrix} 3 & c & c \\ c & c & c \\ 8 & 5 & c \end{bmatrix}$$

(A) 0,2,7 (B) 0,3,7 (C) 0,3,8 (D) 0,3,5