

## General Maths - 10th Class General Math English Medium Chapter 4 Short Question

Q1. What is distributive law of matrices?

**Ans 1:** If three matrices A, B and C are conformable for addition and multiplication then

**Ans 2:** (i)  $A(B + C) = AB + AC$  (left distributive law for matrices)

**Ans 3:** (ii)  $(A + B)C = AC + BC$  (right distributive law for matrices)

Q2. What is meant by the additive inverse of a matrix?

**Ans 1:** If two matrices A and B are such that their sum  $(A + B)$  is zero matrix, then A and B are called additive inverse of each other.

Q3.

**Ans 1:** Matrix Q has one row and two columns. So, the order of matrix Q is 1-by-2 matrix.

Q4. Write the equation  $2x + ky = 7$  and  $4x - 9y = 4$  in matrix form. Also find the value of k if the matrix of the coefficients is singular.

**Ans 1:**

Q5. When are two matrices confirmed for addition?

**Ans 1:** Two matrices A and B are said to be conformable for addition, if they are of the same order and their sum is obtained by adding their corresponding elements.

Q6. What is meant by transpose of a matrix?

**Ans 1:**

Q7.

**Ans 1:**

Q8. 7 apples and 4 pears cost Rs. 11 while 5 apples and 2 pears cost Rs. 7, write in matrix form.

**Ans 1:**

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Q9. Does the commutative law hold in multiplication of matrices?

**Ans 1:**

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Q10.

**Ans 1:**

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