****

**Matrices**

**Assignment**

1. Find the no. of all possible matrices having order 3x4 with each entry 5 or 7.
2. Find Y, such that .
3. If the matrix A = symmetric, find the values of x.
4. If order of a matrix A is 3x4 and order of matrix B is 3x3, then find the order of matrix AB.
5. Find a matrix X such that X. = .
6. If B is a skew symmetric matrix , write whether the matrix (ABA’) is symmetric or skew-symmetric matrix.
7. If A = and A2 – 5A + 7I = O then using this result find A4.
8. If A = , show that (a.I + b.A)n = anI + n.an-1.b.A for all natural number n.
9. If A = , Express this matrix as a sum of symmetric and skew symmetric matrix.
10. Find A-1, by using elementary column operations, where A = .
11. If A =