**ASSIGNMENT NO.- 2[Ch-4 (Determinants)]**

**Class -XII**

1. Evaluate .

2. Find the value of if

3. State whether the following statement is true or false: The determinant

is independent of only.

4. Show that

5. Using properties of determinants ,prove that

6. Using properties,prove that

7. Prove that the determinant is independent of

8. If ,then find and hence solve the following system of equations

9. Two schools P and Q want to award their selected students on the values of Tolerance,Kindness

and Leadership.The school P wants to award Rs each, Rs each and Rs each of the three

respective values to 3, 2 and 1 students respectively with a total award money of Rs 2200.School

Q wants to spend Rs 3100 to award its 4,1 and 3 students on the respective values (by giving the

same award money to the three values as school P).If the total amount of award for one prize on

each value is Rs 1200,using matrices ,find the award money for each value.

10. There are 3 families A,B and C.The number of men,women and children in these families are as

|  |  |  |  |
| --- | --- | --- | --- |
|  | Men | Women | Children |
| Family A | 2 | 3 | 1 |
| Family B | 2 | 1 | 3 |
| Family C | 4 | 2 | 6 |

under

Daily expenses of men,womwn and children are Rs 200,Rs 150 and Rs 200 respectively.Only men

and women earn and children do not.Using matrix multiplication ,calculate the daily expenses of

each family.