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| **WEEK** | **TOPIC** | **CONTENT** | **BEHAVIOURAL OBJECTIVES** | **PRACTICE QUESTIONS** |
| 1 | DIFFERENTIATION | I. limit of a function  ii. differentiate from the first  principle  iii. rules of differentiation | Students should be able to  i. find the limits of a function  ii. differentiate from the first principle  iii.diffrentiate using rules of differentiation | Differentiate the following  i. 5x3+3x2-7  ii. (2x2-5)8  iii. (2x2-4x)(x3+1) |
| 2. | MATRICES | I. types of matrices  ii. addition,subtraction and multiplication of matrices | Students should be able to;  i. Know the types of matrices that exist | Simplify the following  i.  +  ii. -  iii. |
| 3. | DETERMINANT | I. determinant of second order matrices  ii. determinant of third order matrices | Students should be able to;  i.find the determinant of second order matrices  ii. find the determinant of third order matrices | Find the determinants of the following matrices:  Students should be able to;  i.  ii.  ii. |
| 4. | DETERMINANT | 1. cofactors,adjoints and inverse 2. solve simultaneous equations using determinant method | Students should be able to;   1. Find adjoints and inverse 2. Solve simultaneous usinequation using determinant method | Find the inverse of  Use determinant method to solve the equations  2x +y +2z = 13  x + y -2z = 8  x +2y + z = 11 |