

Class – 12th

Chapter-5

Subject Maths

Worksheet-22

Inverse of a Matrix and Linear Equations

- Find the area of triangle using the determinants whose vertices are:
 - (2, 5), (-2, -3) and (6, 0)
 - (3, 8), (2, 7) and (5, -1)
- Using determinants find the area of the triangle with vertices (1, 4), (2, 3) and (-5, -3), are the given points collinear?
- Find the value of k if the area of triangle is 35 Sq. units and the vertices are (k , 4) (2, -6) and (5, 4).
- Using determinants find the value of k if the points (k , $2 - 2k$), ($-k + 1$, $2k$) and ($-4 - k$, $6 - 2k$) are collinear.
- If points (3, -2), (x , 2) and (8, 8) are collinear then find the value of x using determinant.
- Using determinants, find the equation of line passing through the points (3, 1) and (9, 3) and also find the area of the triangle if the third point is (-2, -4).