

Sittle Steps Pre Primary wing of VSA An English Medium Co.Ed. School | Science & Commerce W : www.vsajaipur.com | E : vsajaipur@gmail.com M. : +91 9460356652, 8058999828 Add. : 84, Krishna Vihar, Behind Narayan Niwas, Gopalpura Bypass, Jaipur - 302015 f /vsajaipur | S /vsajaipur | P /vidyashreeacademy | S /vsa_jaipur

REE ACA

Class – 12th *Worksheet-22* Chapter-5

Subject Maths Inverse of a Matrix and Linear Equations

- 1. Find the area of triangle using the determinants whose vertices are:
 - (i) (2, 5), (-2, -3) and (6, 0)
 - (ii) (3, 8), (2, 7) and (5, -1)
- 2. 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).
- 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.
- 6. 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).