## CHAPTER-4 **DETERMINANTS**

## EXERCISE - 4.3

1. Find the area of the triangle with vertices at the point

(i) (1,0), (6,0), (4,3)

(iii) (-2,-3), (3,2), (-1,-8)

(ii) (2,7), (1,1), (10,8)

2. Show that points

 $\mathbf{A}(a, b + c)$ ,  $\mathbf{B}(b, c + a)$ ,  $\mathbf{C}(c, a + b)$ arecollinear

3. Find values of k if the area of the triangle is 4

(i) (k,0), (4,0), (0,2)

(ii) (-2,0), (0,4), (0,k)

- (i) Find the equation of joining (1,2) and (3,6) using determinants.
  - (ii) Find the equation of the line joining (3,1) and (9,3) using determinants.
- 5. If the area of the triangle is 35 sq. units with vertices (2, -6), (5, 4) and (k, 4) then k is

(A) 12

(B) -2

(C) -12, -2 (D) 12, -2