## **EXERCISE 4.2**

1.	Find area of th	ne triangle w	vith vertices a	t the point	given in	each of the following	3:
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- (i) (1,0), (6,0), (4,3)
- (ii) (2,7), (1,1), (10,8)
- (iii) (-2, -3), (3, 2), (-1, -8)
- 2. Show that points

A (a, b + c), B (b, c + a), C (c, a + b) are collinear.

- 3. Find values of k if area of triangle is 4 sq. units and vertices are
  - (i) (k, 0), (4, 0), (0, 2)
- (ii) (-2, 0), (0, 4), (0, k)
- **4.** (i) Find equation of line joining (1, 2) and (3, 6) using determinants.
  - (ii) Find equation of line joining (3, 1) and (9, 3) using determinants.
- 5. If area of 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