COORDINATE GEOMETRY

APPLICATION OF SECTION FORMULA

EXERCISE

Q.1 Find the centroid of the triangle whose vertices are :

(i) $(1, 4), (-1, -1), (3, -2)$

(ii) $(-2, 3), (2, -1), (4, 0)$

Q.2 Two vertices of a triangle are $(1, 2), (3, 5)$ and its centroid is at the origin. Find the coordinates of the third vertex.

Q.3 If $(-2, 3), (4, -3)$ and $(4, 5)$ are the mid-points of the sides of a triangle, find the coordinates of its centroid.

ANSWER KEY

1. (i) $(1, 1/3), (4/3, 2/3)$

2. $(-4, -7)$

3. $(2, 5/3)$