



ST. LAWRENCE HIGH SCHOOL

TOPIC - Area of Triangular Region

Subject: Mathematics Class-9 Second Term F. M. 15

WORKSHEET NO. - 2 Solution Date: 09.11.2020

Q.1) Choose the correct option:

(1x15=15)

- i) If the three points (3,1), (t, -t) and (-1, 13) are collinear then the value of t will be d) 5
- ii) If the vertices of a triangle are (1,1), (5, -2) and (3,4), then its area is
 - b) 9 sq. units
- iii) The co-ordinates of the consecutive vertices of a square are (2, -7), (2, -4), (-1, 0) and (-5, -3). The area of the square is
 - b) 25 sq. units
- iv) ABC is a right angled triangle of which $\underline{ABC} = 90^{\circ}$, co ordinates of A and C are (0,4) and (3,0) resp. then the area of the triangle ABC is
 - b) 6 sq. units
- v) If (0,0), (4, -3) and (x, y) are collinear then
 - a) x = 8, y = -6
- vi) If in triangle ABC, the co-ordinates of vertex A is (7, 4) and centroid of triangle is (1,2), then the co-ordinate of midpoint of BC is
 - d) (-5,8)
- vii) If the points (1,2), (2,4) and (t, 6) are collinear, then the value of t will be d) 3
- viii) If the vertices of a triangle are (1,0), (0,0) and (0,1), then its area is
 - b) 1/2 sq. unit
 - ix) If the three points (0, 0), (2, -3) and (x, y) are collinear then,
 - b) x = 4, y = -6
 - x) If the points (4, 0), (4,0) and (6, k) are collinear then the value of k is b) 0
- xi) If the points (8,1), (k, -4) and (2, -5) are collinear then the value of k is d) 3
- xii) If the area of the triangle formed by the points (2, 7), (5, 1) and (x, 3) be 18 sq. units then the value of x is a) 10 or 2
- xiii) The co ordinate of centroid of a triangle formed by the three points (7, 5), (-2, 5) and (4, 6) is c) (3, 2)
- xiv) If the three points (a,0), (0,b) and (1,1) are collinear then find the value of 1/a + 1/b c) 1
- xv) Find the condition that the three points (a, b), (c, d) and (a c, b d) will be collinear.
 - b) ad = bc

-Chaitali Roy