



TOPIC – Area of Triangular Region

| Su | bject : Mathematics | Class-9 | | F. M. 15 | |
|--|---|-------------------------------|-------------------------------|-------------------------------------|--|
| W | ORKSHEET NO 2 | Second Te | rm | Date: 09.11.2020 | |
| Q.1) | Choose the correct opti | on: | | (1x15=15) | |
| i) | If the three points (3,1), (t, -t) and (-1, 13) are collinear then the value of t will be | | | | |
| | a) 4 | b) - 4 | c) - 5 | d) 5 | |
| ii) | If the vertices of a triang | gle are (1,1), (5, - 2) and | l (3,4), then its area is | | |
| | a) 8 sq. units | b) 9 sq. units | c) 12 sq. units | d) 18 q. 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 | | | | |
| | a) 16 sq. units | b) 25 sq. units | c) 36 sq. units | d) 100 sq. units | |
| iv) |) ABC is a right angled triangle of which <u>/ABC</u> = 90°, co ordinates of A and C are (0,4) and (3,0) resp. then the | | | | |
| | area of the triangle ABC | is | | | |
| | a) 12 sq. units | b) 6 sq. units | c) 24 sq. units | d) 8 sq. units | |
| v) | If (0,0), (4, -3) and (x, y) | are collinear then | | | |
| | a) x = 8 , y = -6 | b) x = 8, y = 6 | c) x = 4 , y = - 6 | d) 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 | | | |
| | a) (-2 <i>,</i> -5) | b) (- 2, 5) | c)(2, - 5) | d) (- 5, 8) | |
| vii) If the points (1,2), (2,4) and (t,6) are collinear, then the value of t will be | | | | | |
| | a) 2 | b) - 2 | c) - 3 | d) 3 | |
| viii) If the vertices of a triangle are (- 1,0), (0,0) and (0,1), then its area is | | | | | |
| | a) 1 sq. unit | b) 1/2 sq. unit | c) 3/2 sq. units | d) 2 sq. units | |
| ix) If the three points (0,0), (2, - 3) and (x, y) are collinear then, | | | | | |
| | a) x = 4, y = 6 | b) x = 4, y = - 6 | c) x = - 4, y = - 6 | d) x = - 1 , y = 2 | |
| x) | If the points (- 4, 0), (4,0 |)) and (6,k) are collinear | then the value of k is | | |
| | a) - 1 | b) 0 | c) 1 | d) 2 | |
| xi) If the points (8,1), (k , - 4) and (2, - 5) are collinear then the value of k is | | | | | |
| | a) 0 | b) 1 | c) – 3 | d) 3 | |
| xii) | If the area of the triangle | e formed by the points (2 | ,7), (5,1) and (x,3) be 1 | .8 sq. units then the value of x is | |
| | a) 10 or - 2 k | o) - 10 or 2 | c) 5 or 1 | d) - 5 or 1 | |
| XIII) | The co ordinate of centr | old of a triangle formed | by the three points (7, - | 5), (-2,5) and (4,6) is | |
| | a) (3, - 2) b | (2, 3) C | (3, 2) | d) (2, - 3) | |
| XIV) | If the three points (a,0), | (0,b) and (1,1) are collin | ear then find the value | of 1/a + 1/b | |
| | a) - 1 b) | U C) |)] () and (a. a. b. d.) | | |
| xv) | Find the condition that th | ne three points (a,b), (c,c | i) and (a - c, b - d)will b | e comnear. | |
| | a) ab = cd b) | ad = bc c) | ac = bd | a) None of these | |

-Chaitali Roy