Contents

1 ,	vectors algebra	1
1.1	2023	1

Chapter 1

vectors algebra

1.1. 2023

- 1. In what ratio, does x-axis divide the line segment join in the points A(3,6) and B(-12,-3) ?
 - (a) 1:2
 - (b) 1:4
 - (c) 4:1
 - (d) 2:1
- 2. The distance between the point $(0, 2\sqrt{5})$ and $(-2\sqrt{5}, 0)$ is
 - (a) $2\sqrt{10}$ units
 - (b) $4\sqrt{10}$ units
 - (c) $2\sqrt{20}$ units
 - (d) 0 units
- 3. if (-5,3) and (5,3) are two vetices of an equilateral triangle, then coordinates of the third vertex, given that origin lies inside the triangle

 $(take\sqrt{3} = 1.7)$

4. show that the points (-2,3), (8,3) and (6,7) are the verices of right-angled triangle

5. if Q(0,1) is equidistant from P(5,-3) and R(x,6), find the value of x

6. The distance of the point (-6,8) from origin is :

- (a) 6
- (b) -6
- (c) 8
- (d) 10

7. The points (-4,0),(4,0) and (0,3) are the vertices of a:

- (a) right triangle
- (b) isosceles triangle
- (c) equilateral triangle
- (d) scalene triangle