

1. In what ratio, does x -axis divide the line segment joinin the points $\mathbf{A}(3, 6)$ and $\mathbf{B}(-12, -3)$?

(a) $1 : 2$	(c) $4 : 1$
(b) $1 : 4$	(d) $2 : 1$

2. The distance between the point $(0, 2\sqrt{5})$ and $(-2\sqrt{5}, 0)$ is

(a) $2\sqrt{10}$ units	(c) $2\sqrt{20}$ units
(b) $4\sqrt{10}$ units	(d) 0 units

3. if $(-5, 3)$ and $(5, 3)$ are two vetices of an equilateral triangle, then co-ordinates 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 $\mathbf{Q} = (0, 1)$ is equidistant from $\mathbf{P} = (5, -3)$ and $\mathbf{R} = (x, 6)$, find the value of x .
6. The distance of the point $(-6, 8)$ from origin is :

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

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

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