

Coordinate Geometry : Worksheet -1

1. The point where the line $y = mx + c$ cuts the Y-axis is ()
 A. (0 , 0) B. (0 , c) C. (c , 0) D. (m , c)

2. The figure formed by (0 , 3) , (0 , 0) , (4 , 0) is ()
 A. a right triangle B. equilateral triangle
 C. isosceles triangle D. a line

3. Pair of $3y$ perpendicular lines: ()
 A. $y = 3x ; x =$ B. $y = 8 ; x = 4$
 C. $y = 3x ; x = -3y$ D. $x = 8 ; y = 4$

4. The centroid of triangle whose vertices are (1,2), (2,3) and (3,4) is ()
 A. (2 , 3) B. (6 , 9) C. (0 , - 1) D. (1 , 1)

5. Distance between (0 , 0) and ($\sin \theta$, $\cos \theta$) is ()
 A. 0 B. 1 C. 2 D. 4

6. The midpoint of the line segment joining (1,2) and (3,4) is ()
 A. (2 , 3) B. (3 , 2) C. (2 , 2) D. (2 , 4)

7. If ' θ ' is the inclination of a line, its slope is ()
 A. $\sin \theta$ B. $\cos \theta$ C. $\tan \theta$ D. $\cot \theta$

8. Distance between ($a \cos \alpha$, 0) and (0 , $a \sin \alpha$) is: ()
 A. 0 B. a C. $\sqrt{a}$ D. a^2



9. Distance between the origin and (h, k) is : ()

- A. $\sqrt{h+k}$ B. $\sqrt{h-k}$ C. $\sqrt{h^2+k^2}$ D. $\sqrt{h^2-k^2}$

10. Area of triangle whose vertices are $(0,0)$, $(4,0)$ and $(0,3)$ is ()

- A. 12 B. 6 C. 7 D. 24

