

Coordinate Geometry : Worksheet -8

1. If $(0, 0)$ $(a, 0)$ (b, c) form a parallelogram, its 4th vertex is _____
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a) $(b-a, c-a)$ b) $(c, b-a)$ c) $(b-a, c)$ d) $(b, c-a)$
2. If $P(1, 2)$, $Q(4, 6)$, $R(5, 7)$ and $S(a, b)$ are the vertices of a ||gm PQRS then _____
[]
a) $a = 2, b = 4$ b) $a = 3, b = 4$ c) $a = 2, b = 3$ d) $a = 3, b = 5$
3. If $A(6, -6)$, $B(1, 4)$, $C(9, -12)$ in which ratio A divides BC? []
a) 5:3 b) 3:5 c) 5: - 3 d) - 5:3
4. The ratio in which X - axis divides $(2, 3)$ and $(-3, -4)$ is ____ []
a) $3/2$ b) $2/3$ c) $4/3$ d) $3/4$
5. If $A(-1, 3)$, $B(-3, 7)$ and $C(1, -1)$ are three points in a plane then A divides \overline{BC} in the ratio _____ []
a) 1:2 b) 4:5 c) 8:2 d) 1:1
6. If the end points of the diameter of a circle are $(-2, 3)$ and $(6, -3)$, then the area of the circle (in square units) is _ _ _ _ _ []
a] $\frac{550}{3}$ b] $\frac{540}{7}$ c] $\frac{560}{7}$ d] $\frac{550}{7}$
7. If $(1, -3)$, $(-2, -3)$ and $(-2, 2)$ are the three vertices of a parallelogram taken in that order, then the fourth vertex is _ _ _ _ _ []
a] $(-1, -2)$ b] $(1, 2)$ c] $(-1, 2)$ d] $(1, -2)$



8. If $(2, 0)$ and $(-2, 0)$ are the two vertices of an equilateral triangle, then the third vertex can be _ _ _ _ _ . []

- a] $(0, 0)$ b] $(2, -2)$ c] $(0, 2\sqrt{3})$ d] $(\sqrt{3}, \sqrt{3})$

9. The end points of the longest chord of a circle are $(-4, 2)$ and $(-6, -8)$. Find its centre. []

- a] $\left(-\frac{10}{3}, -2\right)$ b] $(-5, -2)$ c] $(-5, -4)$ d] $(-5, -3)$

10. The points on the Y-axis which are at a distance of 5 units from $(4, -1)$ are []

- a] $(0, -2), (0, 4)$ b] $(0, 2), (0, -4)$
c] $(0, 2), (0, 4)$ d] $(0, -2), (0, -4)$

