Coordinate Geometry: Worksheet -10

- 1. The 1^{st} and 2^{nd} points of trisection of the join of (-2, 11), (-5, 2) are
 - a] (-3, -8), (4, 5)

b] (3, -8), (4, -5)

c] (3, 8), (4, 5)

- d] (-3, 8), (-4, 5)
- 2. The number of points equidistant to two given distinct points is
 - a] 0

b] 1

- c] Infinite
- d] None

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- 3. The centroid of a triangle formed by (7, p), (q, -6), (10, 10) is (6, 4), then (p, q) =
 - a] (0, 1)
- b] (8, 1)
- c] (1, 2)
- d] (3, 4)
- 4. The lines, x = -2 and y = 3 intersect at the point
- []

- a] (-2, 3)
- b] (2, -3)
- c] (3, -2)
- d] (-3, 2)
- 5. If A (2, 2), B (6, 3) and C (4, 11) are vertices of a triangle ABC and D, E are the mid points of \overline{BC} and \overline{CA} respectively, then the length of \overline{DE} is
 - a] $\sqrt{17}$
- b] $\frac{2}{\sqrt{17}}$
- c] $\frac{\sqrt{17}}{2}$
- d] 2
- 6. If A, B, C are collinear points such that A = (3, 4), C = (11, 10) and AB = 2.5, then B =
 - a] (5, 2)
- b] (2, 5)
- c] $\left(5, \frac{11}{2}\right)$
- d] None
- 7. The points (8, 4) divides the line joining (5, -2) and (9, 6), in the ratio
 - a] 3:2
- b] 2:3
- c] 3:1
- d] 1:3
- 8. If the points (k, 1), (5, 5) and (10, 7) are collinear, then k is [
 - a] 5

b] 8

- c] 5
- d] 8

