

1. What is the distance between (1, 3) and (5, 6)?
 - a) 3 units
 - b) 4 units
 - c) 5 units
 - d) 25 units

2. What is the distance of (5, 12) from origin?
 - a) 6 units
 - b) 8 units
 - c) 10 units
 - d) 13 units

3. The coordinates of a point dividing the line segment joining (1, 2) and (4, 5) internally in the ratio 2:1 is _____
 - a) (3, 4)
 - b) (4, 3)
 - c) (5, 4)
 - d) (5, 3)

4. In which ratio (3, 4) divides the line segment joining (1, 2) and (4, 5) internally?
 - a) 1:2
 - b) 2:1
 - c) 3:4
 - d) 4:3

5. The coordinates of a point dividing the line segment joining (1, 2) and (4, 5) externally in the ratio 2:1 is _____
 - a) (4, 5)
 - b) (6, 8)
 - c) (7, 8)
 - d) (8, 6)

6. _____ is the midpoint of (1, 2) and (5, 8).
 - a) (2, 5)
 - b) (3, 5)
 - c) (5, 2)
 - d) (5, 3)

7. What is the area of triangle whose vertices are (-4, -4), (-3, 2), (3, -16)?
 - a) 24 sq. units
 - b) 27 sq. units
 - c) 32 sq. units
 - d) 37 sq. units

8. If area of triangle formed by three points is zero then the three points must be collinear.
 - a) True
 - b) False

9. Angle made by line with _____ measured anticlockwise is called inclination of the line.
 - a) positive x-axis
 - b) negative x-axis

- c) positive y-axis
- d) negative y-axis

10. Slope of a line is given by _____ if inclination of line is α .

- a) $\sin\alpha$
- b) $\cos\alpha$
- c) $\tan\alpha$
- d) $\cot\alpha$

11. Find slope of line if inclination made by the line is 60° .

- a) $1/2$
- b) $1/\sqrt{3}$
- c) $\sqrt{3}$
- d) 1

12. What is the inclination of a line which is parallel to x-axis?

- a) 0°
- b) 180°
- c) 45°
- d) 90°

13. What is the inclination of a line which is parallel to y-axis?

- a) 0°
- b) 180°
- c) 45°
- d) 90°

14. What is the slope of a line which is parallel to x-axis?

- a) -1
- b) 0
- c) 1
- d) Not defined

15. What is the slope of a line which is parallel to y-axis?

- a) -1
- b) 0
- c) 1
- d) Not defined

16. If the two lines are perpendicular then difference of their inclination angle is _____

- a) 45°
- b) 60°
- c) 90°
- d) 180°

View Answer

17. If the two lines with slope m_1 and m_2 are perpendicular then their slopes has relation _____

- a) $m_1 + m_2 = 1$
- b) $m_1 * m_2 = 1$
- c) $m_1 * m_2 = -1$
- d) $m_1 + m_2 = -1$

18. If angle between the two lines is 45° and slope of one line is $1/4$ then which of the following is possible value of the slope of other line.

- a) $5/3$
- b) $3/5$
- c) $-5/3$
- d) $4/5$

19. If angle between the two lines is 45° and slope of one line is $1/4$ then which of the following is possible value of the slope of other line.

- a) $3/5$
- b) $-3/5$
- c) $-5/3$
- d) $4/5$

20. If slope of a line is $2/3$ then find the slope of line perpendicular to it.

- a) $-3/2$
- b) $3/2$
- c) $2/3$
- d) $-2/3$

ANSWERS-1.(A) 2.(D) 3.(A) 4.(B) 5.(C) 6.(B) 7.(B) 8.(A) 9.(A) 10.(C)

11.(C) 12.(A) 13.(D) 14.(B) 15.(D) 16.(C) 17.(C) 18.(A) 19.(B) 20.(A)