

3 Lecture - MTH101

Important Mcqs

1. What is the equation of the vertical line passing through the point (-3,5)?
- a) $x = -3$
 - b) $y = -3$
 - c) $x = 5$
 - d) $y = 5$

Solution: a) $x = -3$

2. What are the coordinates of the origin on a coordinate plane?
- a) (1,1)
 - b) (-1,-1)
 - c) (0,0)
 - d) (2,2)

Solution: c) (0,0)

3. What is the slope of the line passing through the points (3,5) and (1,2)?
- a) $3/2$
 - b) $-3/2$
 - c) $2/3$
 - d) $-2/3$

Solution: b) $-3/2$

4. Which quadrant contains the point (-4,-2)?
- a) First
 - b) Second
 - c) Third
 - d) Fourth

Solution: c) Third

5. What is the distance between points (2,5) and (-3,1)?
- a) 2
 - b) 5
 - c) $\sqrt{26}$
 - d) $\sqrt{29}$

Solution: d) $\sqrt{29}$

6. What is the slope of the line perpendicular to the line $y = 3x - 2$?
- a) $3/2$
 - b) $-3/2$

- c) $-1/3$
- d) $1/3$

Solution: c) $-1/3$

7. Which of the following is an equation of a vertical line?

- a) $y = 2x + 3$
- b) $x = 4$
- c) $y = -x + 1$
- d) $x + y = 7$

Solution: b) $x = 4$

8. What is the equation of the line passing through the points (2,-3) and (4,5)?

- a) $y = -2x + 1$
- b) $y = 2x - 7$
- c) $y = -4x - 11$
- d) $y = 4x - 11$

Solution: d) $y = 4x - 11$

9. What is the slope-intercept form of the equation of the line passing through the point (2,4) with a slope of -2?

- a) $y = -2x - 4$
- b) $y = -2x + 8$
- c) $y = 2x - 4$
- d) $y = 2x + 4$

Solution: a) $y = -2x + 8$

10. What is the equation of the line passing through the points (-1,3) and (5,-1)?

- a) $y = -x + 2$
- b) $y = x + 2$
- c) $y = -x - 2$
- d) $y = x - 2$

Solution: c) $y = -x + 2$