## 1 Lecture - MTH101

## Important Mcqs

1. Which of the following is the origin in the Cartesian coordinate system? a) $(0,1) b(1,0) c)(0,0) d)$ $(1,1)$ Answer: c) $(\mathbf{0}, \mathbf{0})$
2. What is the slope of a horizontal line? a) 0 b) 1 c) Undefined d) Infinity Answer: a) 0
3. Which of the following equations is in slope-intercept form? a) $2 x+3 y=6$ b) $y=4 x-2$ c) $5 x-2 y=8$ d) $\mathrm{x}-3 \mathrm{y}=9$ Answer: b) $\mathbf{y}=\mathbf{4 x} \mathbf{- 2}$
4. What is the equation of the line with a slope of $\mathbf{2}$ and a $y$-intercept of $\mathbf{- 3}$ ? $a) y=2 x+3 b) y=2 x-3 c$ ) $x=2 y+3$ d) $x=2 y-3$ Answer: b) $y=2 x-3$
5. Which of the following is not a quadrant in the Cartesian coordinate system? a) First quadrant b) Second quadrant c) Third quadrant d) Fifth quadrant Answer: d) Fifth quadrant
6. What is the equation of the line passing through points $(2,3)$ and $(4,5) ? a) y=2 x+1 b) y=2 x-1$ c) $y$ $=x+1$ d) $y=x-1$ Answer: $\mathbf{b )} \mathbf{y}=2 x-1$
7. Which of the following is the equation of a vertical line? a) $y=2 x+3 b) y=-4 c) x-3 y=6 d) y=x-$ 2 Answer: b) $y=-4$
8. What is the slope of a vertical line? a) Undefined b) 0 c) 1 d) Infinity Answer: a) Undefined
9. What is the x-coordinate of a point on the y-axis? a) 0 b) 1 c) -1 d) Undefined Answer: a) 0
10. What is the y-coordinate of the point (5,8)? a) 5 b) 8 c) -5 d) -8 Answer: b) 8
