## 4 Lecture - MTH101

## **Important Mcqs**

1.	What is the slope of a horizontal line?  a) Positive b) Negative c) Zero d) Undefined Solution: c) Zero
2.	What is the equation of a line with a slope of 2 and a y-intercept of 3? a) $y = 2x + 3$ b) $y = 3x + 2$ c) $y = 2x - 3$ d) $y = -2x + 3$ Solution: a) $y = 2x + 3$
3.	What is the y-intercept of a line with an equation of y = -5x + 7?  a) -5  b) 5  c) 7  d) -7  Solution: c) 7
4.	What is the slope of a line that passes through points (3, 5) and (8, 11)?  a) 3 b) 2 c) 1 d) 6 Solution: b) 2
5.	What is the slope of a vertical line?  a) Positive b) Negative c) Zero d) Undefined Solution: d) Undefined

6.	What is the equation of a line that passes through the points (-2, 4) and (4, -2)?  a) $y = x + 2$ b) $y = -x - 2$ c) $y = -x + 2$ d) $y = x - 2$ Solution: b) $y = -x - 2$
7.	What is the y-intercept of a line with an equation of y = 2x - 6?  a) -2  b) 2  c) -6  d) 6  Solution: c) -6
8.	What is the slope of a line that is parallel to the line y = 4x + 2?  a) 4  b) -4  c) 1/4  d) -1/4  Solution: a) 4
9.	What is the equation of a line that is perpendicular to the line $y = -3x + 5$ and passes through the point (2, 4)?  a) $y = -1/3x + 10/3$ b) $y = -3x + 10$ c) $y = 1/3x + 2/3$ d) $y = 3x - 2$ Solution: a) $y = -1/3x + 10/3$
10.	What is the slope of a line that passes through the points (0, 4) and (4, 0)?  a) 4  b) -4  c) 1  d) -1  Solution: b) -4