## 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) $y = 5$
So	olution: 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)
So	olution: 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
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So	olution: b) -3/2
4.	Which quadrant contains the point (-4,-2)?  a) First b) Second c) Third d) Fourth
S	olution: c) Third
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5.	What is the distance between points (2,5) and (-3,1)?  a) 2  b) 5  c) sqrt(26) d) sqrt(29)
So	olution: d) sqrt(29)
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6.	What is the slope of the line perpendicular to the line $y = 3x - 2$ ?

a) 3/2 b) -3/2

c)	-1	/3
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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