THE WISDOM ACADEMY

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Class: 9th	Test#06: Math	Total Marks:40	Chap#7&10

Student Name: _____ **Roll No:** _____

Q: 01 Encircle the correct option: (1x10)

1	Distance between points (7, 6) and (3, 3) is				
	a) 5	b) 6	c) 7	d) 3	
2	All points on x-axis and lying on the left region will be:				
	a) Positive	b) Negative	c) Neutral	d) None	
3	For the III quadrant, which of them is true?				
	a) $x > 0, y > 0$	b) $x < 0, y > 0$	c) $x < 0, y < 0$	d) $x > 0, y < 0$	
4	If A(2, 3) , B(8, 7) are two points then midpoint will be?				
	a) (2, 2)	b) (3, 3)	c) (4, 4)	d) (5, 5)	
5	$\frac{x}{-c/a} + \frac{y}{-c/b} = 1$ is known as	a) point slope form	b) two point form	c) symmetric form	d) intercept form
6	The general equation of straight line is?				
	a) ax+bx = 0	b) ax+ by + c = 0	c) ay + by = 0	d) ax + by + cg = 0	
7	Ln y = f(x), x is variable	a) dependent	b) independent	c) it is not a variable	d) non of these
8	What is the slope of line y = -3x + 5?				
	a) -3	b) 5	c) 3	d) -5	
9	If $y = -x^3$, $-3 \leq x \leq 3$ the curve passes through:				
	a) origin	b) x-axis	c) y-axis	d) no graph exist	
10	The graph $y = 2^x$ represent:				
	a) growth curve	b) circle	c) straight line	d) hyperbola	

Q: 02 Solve these Given Questions:

1) What is distance between the points (0, 0) and (3, 4) ?
2) What are the coordinates of the midpoint of the line segment joining (0, 6) and (8, 0)?
3) Define midpoint formula?
4) Sketch the line 3x + 2y = 0.
5) Show that points A(1, 1) B(4, 5), C(12, -1) are points of right triangle?
6) Plot the graph $y = 3x^{\frac{1}{3}}$
7) Sketch the graph of linear function: y = 0.5x – 1.
8) Define function and also write general form of linear function?
9) The point C(-5, 3) is the center of circle and P(7, -2) lies on the circle, what is the radius of circle?
10) When two lines l_1 and l_2 are perpendicular?

Q: 03 Solve these Long Questions:

A. Prove that equation of non-vertical straight line passing through two points Q(x_1 and y_1) and R(x_2, y_2) is $y - y = \frac{y_2 - y_1}{x_2 - x_1}(x - x_1)$?

B. Plot the graph of following from x -5 to 5: $y = x^2 - 3$?