

Name: _____						
Subject: Math		Class: 9 th		Time: 60 minutes		
Unit Number: 9		MJDexpert.com			Total Marks: 30	Obtained marks

Q#1	Circle the correct option			1×6=6
1. The study of geometrical shapes in a plane is called:				
a) <i>xy</i> plane	b) Quadrant	c) Coordinate geometry	d) Plane geometry	
2. A plane divided into four quadrants by two perpendicular lines is called:				
a) Plane geometry	b) Axes	c) Cartesian plane	d) None	
3. The only point collinear with <i>x – axis</i> and <i>y – axis</i> is:				
a) Origin	b) Center	c) Abscissa	d) Coordinate	
4. Distance between the points (1,0) and (0,1) is:				
a) $\sqrt{2}$	b) 0	c) 1	d) 2	
5. A triangle in which the measure of all sides is different is called:				
a) Scalene triangle	b) Equilateral triangle	c) Isosceles triangle	d) Both a and b	
6. Mid-point of the points (2, –2) and (–2,2) is				
a) (2,2)	b) (–2, –2)	c) (0,0)	d) (1,1)	
Q#2	Attempt all the short questions			2×8=16
i. Find the distance between the pairs of point A(–8,1) and B(6,1).				
ii. Find the distance between p and q if $a = -8$ and $b = 6$.				
iii. Define isosceles triangle.				
iv. What is difference between collinear and non collinear points.				
v. Differentiate between abscissa and ordinate.				
vi. Show whether the points with coordinate (1,3) (4,2) and (–2,6) are vertices of right angled triangle.				
vii. Find the length of the diameter of the circle having center at C(–3,6) and passing through P(1,3).				
viii. Find the midpoint of the points A(9,2) and B(7,2).				
Q#3	Write detailed answer of the following questions			4×2=08
a) Find the length of the diameter of the circle having center at C(–3,6) and passing through P(1,3).				
b) The vertices of a triangle are P(4,6), Q(–2, –2) and R(–8,2). Show that the length of the line segment joining the mid-points of the line segment PR, QR is $\frac{1}{2}PQ$.				