Non-Calculator

Q1.

Work out the diameter of the circle & $4 + y^2$ Circle your answer.

	8	16	32	128	
					(Total 1 mark)
Q2. A circl	le has equation x^2 +	<u>1</u> - y2 ≭			
Circle the length of its radius.					
	1 16	<u>1</u> 8	$\frac{1}{4}$	<u>1</u> 2	
					(Total 1 mark)

Calculator

Q3.

A circle has equation $x^2 + y^2 = 4$ Circle the length of its radius.



(Total 1 mark)

Q4.

(a) Draw the locus of all points on the grid which are 4 units from (0, 0)



(1)

(b) Write down the equation of this locus.

Answer _____

(1) (Total 2 marks) (a) What is the equation of a circle with centre (0, 0) and diameter 6 units? Circle your answer.

$$x^2 + y^2 = 3$$
 $x^2 + y^2 = 6$ $x^2 + y^2 = 9$ $x^2 + y^2 = 36$

Which of these points lie on the circumference of the circle $x^2 + y^2 = 25$? (b) Circle your answer.

Circle True (T) or False (F) for each statement. (C)

> The centre of the circle $x^2 + y^2 = 25$ is (0, 0) F Т The equation of the tangent to the circle $x^2 + y^2 = 25$ F at the point (5, 0) is y = 5The equation of a circle and the equation of a straight line can have 0, 1 or 2 solutions if solved Т F simultaneously

> > (2)

Q5.

(1)

(1)

(Total 4 marks)