

Math 2003 || Quiz # 4

Name		Section		Date	Oct 7, 2015
Textbook: Applied Calculus		Chapter: 1.7			
Items		Points		Your score	
Question 1		25%			
Question 2		25%			
Question 3		25%			
Question 4		25%			
You have earned					

1. Determine the center and radius of the given circle and sketch the graph:

$$(x-3)^2 + (y-2)^2 = 4$$

2. $x^2 + y^2 - 2x + 4y + 1 = 0$

3. $x^2 + y^2 + 8x + 6y + 16 = 0$

4. Determine the equation of the tangent line to the circle $x^2 + y^2 = 169$ at point $(12, -5)$