Name:

 $r\sin\theta = \ln r + \ln\cos\theta.$

3. Replace the polar equation with equivalent Cartesian

Math 201	Quiz 1 Section 14	Student ID:
Fall 2014, Term 141	Version A	
		Serial Number:
Instructions: Show Your Work!		

equation.

 (3^{pts})

 (3^{pts})

 (4^{pts})

1. Find parametric equations for the semicircle

 $x = t^2/2, \quad y = (2t+1)^{3/2}/3, \quad 0 \le t \le 4$

$$\label{eq:star} \begin{split} x^2+y^2 = 9, \quad y > 0, \\ \text{using the parameter } t = dx/dy. \end{split}$$

2. Find the length of the curve