

Calculus III, Math 201
Fall 2012, Term 121

Quiz 1 Section 09

Name: _____

SID: _____

Serial Number: _____

Instructions: Show Your Work!

- (4^{pts}) **1.** Eliminate the parameter t to find a Cartesian equation of the curve $x = \ln t, y = \sqrt{t}, \quad t \geq 1$.
- (4^{pts}) **2.** Which points on $x = 3t - t^2, y = t^3 - 12$ have tangents with slope 3?
- (4^{pts}) **3.** Find the polar equation for $x^2 + y^2 = 2x$.