

**King Fahd University of Petroleum and Minerals**  
**Department of Mathematics and Statistics**  
**Math 201                      Quiz 1**  
**First Semester 2010–2011(101)**

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Name: \_\_\_\_\_

ID #: \_\_\_\_\_

Sec#: \_\_\_\_\_

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1. Sketch the curve by using the parametric equations to plot points

$$x = 2 \cos t, \quad y = t - \cos t, \quad 0 \leq t \leq 2\pi.$$

2. Eliminate the parameter to find a cartesian equation of the curve

$$x = \ln t, \quad y = \sqrt{t}.$$

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1. Sketch the curve by using the parametric equations to plot points

$$x = 5 \sin t, \quad y = t^2, \quad -\pi \leq x \leq \pi.$$

2. Eliminate the parameter to find a cartesian equation of the curve

$$x = \sec \theta, \quad y = \tan \theta, \quad -\pi/2 < \theta < \pi/2.$$