

Quiz #1; Tuesday, date: 01/23/2018
MATH 53 Multivariable Calculus with Stankova
Section #117; time: 5 – 6:30 pm
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Student name:

1. Identify the curve

$$r = 6 \sec \theta$$

by finding a Cartesian equation for the curve.

2. *True / False?* Given a curve in parametric form

$$x = f(t), \quad y = g(t), \quad -\infty < t < \infty.$$

This is always the same curve as

$$x = f(s^3), \quad y = g(s^3), \quad -\infty < s < \infty.$$

3. *True / False?* All points can be described uniquely using polar coordinates (r, θ) , once we require $r \geq 0$ and $0 \leq \theta < 2\pi$.