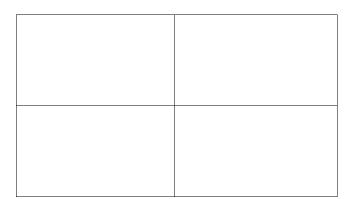
Math2210 Quiz 1	(Sections 10.4, 11.1)	Summer, 2010
Name		Date

<u>Instructions</u>: Please show all of your work as partial credit will be given where appropriate, **and** there may be no credit given for problems where there is no work shown. All answers should be completely simplified, unless otherwise stated.

1. For $x=\sin 2t$ and $y=\cos 2t$ such that $0\leq t\leq \pi$, eliminate the parameter and graph the curve. Indicate if the curve is simple and/or closed.

Hint: $x^2 + y^2 = ?$



Simple: T or F (circle one)

Dylan Zwick

Closed: T or F (circle one)

2. Find the distance between the points (1, 3, 5) and (3, 3, 3).

distance = _____



$$\frac{dy}{dx} = \underline{\qquad \qquad }$$

$$\frac{d^2y}{dx^2} = \underline{\qquad \qquad }$$

4. Find the equation of the sphere that has the line segment joining the two points in question #2 as a diameter.

Center of sphere:

Equation of sphere: