Name: _____

Calculus III, Math 201
Fall 2012, Term 121

Quiz 2 Section 09

SID: _____

Serrial Number: _____

Instructions: Show Your Work!

(2^{pts}) **1.** Find an equation of the sphere that passes through the origin and whose center is $(2, -6, 3)$.

(5^{pts}) **2.** Draw the vectors $\vec{a} =< 2, 3 >, \vec{b} =< -1, 2 >$ and $\vec{c} =< 1, 7 >$ and find the scalars s and t, if they exist, such that $\vec{c} = s\vec{a} + t\vec{b}$.

(3^{pts}) **3.** Find the angle between a diagonal of a cube and one of its edges ?