

Math 201-142 Quiz 1

Name _____ Section ___ Id _____

Serial number _____

a) Find the Cartesian equations of the curve with parametric equations

$$x = 4\sin t, y = 3\cos 2t$$

(use $\cos 2t = \cos^2(t) - \sin^2(t)$)

b) Draw a sketch of the graph in the interval $-\frac{\pi}{2} \leq t \leq \frac{\pi}{2}$. Give the initial point, final point and direction of motion.