

“QUIZ” for SEPT. 17, 2009

NAME: (print!) _____ **Section:** _____

E-MAIL ADDRESS: (print!) _____

1, Find the curvature for

$$\mathbf{r}(t) = \sin t \mathbf{i} + \cos t \mathbf{j} + t \mathbf{k} \quad .$$

2.: Find the velocity, acceleration, and speed of a particle with the given position function.

$$\mathbf{r}(t) = t \mathbf{i} + t^2 \mathbf{j} + 5 \mathbf{k} \quad .$$