NAME: (print!) Orion Kress Sanfilippo Section: 22

E-MAIL SCANNED .pdf OF COMPLETED QUIZ to DrZcalc3@gmail.com (Attachment: q5FirstLast.pdf) ASAP BUT NO LATER THAN Sept. 21, 8:00pm

$$k = \frac{|L_1(4)|_3}{|L_1(4)|_4}$$

1, Find the curvature for

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

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