## "QUIZ" for Lecture 5

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

1, Find the curvature for

$$r(t) = \sin ti + \cos tj + t k$$
.

$$|r'(t)| = Costi - Sintj + k$$

$$|r'(t)| = \sqrt{2}$$

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$$|T'(t)| = \sqrt{2}$$

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

$$r(t) = ti + t^2j + 5k$$

