"QUIZ" for Lecture 5

NAME: (print!)

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

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

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

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

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$$(-) = \sin$$

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

$$Velocity: \Gamma'(t) = \int_{-\infty}^{\infty} t^{2} + 5k$$

$$Speed = |\Gamma'(t)| = \int_{-\infty}^{\infty} t^{2} + 2t$$

$$O((e|eration); \Gamma''(t) = 2)$$