"QUIZ" for Lecture 4

NAME: (print!) Fayed Raza Section: 25

E-MAILSCANNED .pdf OF COMPLETED QUIZ to DrZcalc3@gmail.com (Attachment: q4FirstLast.pdf) ASAP BUT NO LATER THAN Sept. 17, 8:00pm

1. Find a parametric equation for the tangent line to the curve with the given parametric equation at the specified point

 $x = \cos t$, $y = \sin t$, $z = t^2 + 1$; (1, 0, 1)

2. Find $\mathbf{r}(t)$ if

$$\mathbf{r}'(t) = t\,\mathbf{i} + 2\,\mathbf{j} + (t+1)\,\mathbf{k}$$

and r(0) = i + 2j + 3k $(+) = \frac{1}{2} + \frac{1$