E-MAILSCANNED .pdf OF COMPLETED QUIZ to DrZcalc3@gmail.com (Attachment: q3FirstLast.pdf) ASAP BUT NO LATER THAN Sept. 15, 8:00pm

NAME:

1. Find an equation of the plane that passes through the points (0, 1, 1), (1, 0, 1), (1, 1, 0).

$$P(k = \langle 1, -1, 0 \rangle \quad P(k = \langle 1, 0, -1 \rangle)$$

$$\begin{vmatrix} i & j & h \\ 1 & -1 & 0 \\ 1 & 0 & -1 \end{vmatrix} = (i + j + h)$$

$$\langle 1, 1, 1, 17$$

$$I(x-9) + I(y-0) + I(2-9) = 0$$

2. Find the intersection of the line

$$\mathbf{r}(t) = \langle 1, 1, 0 \rangle + t \langle 0, 2, 4 \rangle$$

and the plane

$$x + y + z = 14$$

$$f(t) = \langle \underline{1}, \underline{1}, 9 \rangle + \frac{1}{2} \langle 0, \underline{1}, 4 \rangle = \langle \underline{1}, 2 + \underline{1}, \underline{1} + 4 + \rangle$$

$$\frac{1}{2} + (1 + \underline{1} + 4 + 2) + 4 + \frac{1}{4} = \frac{1}{4} = \frac{1}{4} = \frac{1}{4} = \frac{1}{4}$$

$$\frac{1}{4} = 2$$

$$\chi = 1$$

$$\chi = 5$$

$$Z = 8$$