- , ...

Math 304

$\begin{array}{c} {}_{\rm Quiz \ 3} \\ {\bf Linear \ Algebra} \end{array}$

Instructions Please write your name in the upper right-hand corner of the page. Use complete sentences, along with any necessary supporting calculations, to answer the following questions.

1. Find all values of t for which

$$\det \begin{pmatrix} 0 & 0 & 0 & t \\ 1 & 0 & t & * \\ 0 & 2 & 0 & * \\ 1 & * & 3 & * \end{pmatrix} = 0.$$

(The asterisks represent unspecified numbers that you do not need to know to solve the problem.)

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Math 304

$$\begin{pmatrix} 1 & 7 & * \\ 3 & 23 & * \\ 0 & 8 & * \end{pmatrix} = \begin{pmatrix} 1 & 0 & 0 \\ \Box & 1 & 0 \\ \Box & \Box & 1 \end{pmatrix} \begin{pmatrix} * & * & * \\ 0 & * & * \\ 0 & 0 & * \end{pmatrix}$$

Quiz 3

Linear Algebra

2. Fill in the three indicated matrix entries in the following equation that expresses a certain matrix as the product of a lower triangular matrix

(The asterisks represent unspecified numbers that you do not need to know to solve the problem.)

June 2, 2008

Summer 2008