Math 340 Quizzes

# Math 340 Quiz 1

False start go to next file, 0914.tex

1.) Consider $G = \begin{bmatrix} 0 & 1 & 1 & 0 \\ 1 & 0 & 0 & 1 \\ 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 0 \end{bmatrix}$.

a.) Circle entry $g_{14}$.

b.) Compute $G^2$, $GG^T$, and $G^TG$.

c.) Let $A = 2G$. Find $A^2$.

2.) Write the following system of equations in the form $Ax = b$

$$10x_1 + 9x_2 + x_3 - 9 = 0$$

$$9x_2 + x_3 + 1 = 0$$

$$10x_1 - x_3 = 8$$

Not quiz

a.) Consider $A = \begin{bmatrix} 1 & 1 & 1 & 0 & 0 & 1 & 1 & 0 \\ 1 & 0 & 0 & 1 & 0 & 1 & 1 & 0 \\ 1 & 8 & 0 & 1 & 777 & 1 & 1 & 0 \\ 1 & 0 & 0 & 9 & 0 & 1 & 1 & 0 \\ 1 & 0 & 0 & 1 & 0 & 1 & 1 & 0 \\ 1 & 0 & 0 & 1 & 0 & 1 & 1 & 0 \\ 1 & 0 & 44 & 1 & 0 & 1 & 3 & 0 \\ 0 & 1 & 1 & 0 & 0 & 1 & 1 & 0 \end{bmatrix}$.

Let $B = 2A$ and $C = AB$ and $D = C^T$.

Find $d_{81}$.