Engineering Mathematics I---Quiz-9

Dec. 28, 2005

1) $A=\begin{bmatrix} 0 & 2 & 4 & 0 \\ 1 & 2 & -2 & 3 \\ 5 & 1 & 0 & -1 \\ 1 & 1 & 1 & 2 \end{bmatrix}$ a) M_{33} b) C_{34}

2) $A=\begin{bmatrix} 1 & 1 & -3 & 0 \\ 1 & 5 & 3 & 2 \\ 1 & -2 & 1 & 0 \\ 4 & 8 & 0 & 0 \end{bmatrix}$ $\det(A)=?$

3) Use either Gaussian elimination or Gauss-Jordan elimination to solve the given system. a) $\begin{cases} x_1 - x_2 = 11 \\ 4x_1 + 3x_2 = -5 \end{cases}$ b) $\begin{cases} x_1 + 2x_2 + 2x_3 = 2 \\ x_1 + x_2 + x_3 = 0 \\ x_1 - 3x_2 - x_3 = 0 \end{cases}$