CHEN.3170 Applied Engineering Problem Solving

A Short Quiz on

Linear Algebra Notation and Calculations

Given the following matrices: $\underline{\underline{A}} = \begin{bmatrix} 1 & -1 & 2 \\ 0 & 2 & 3 \\ -4 & 2 & -1 \end{bmatrix}$ and $\underline{b} = \begin{bmatrix} 1 \\ 0 \\ -1 \end{bmatrix}$

Compute $\underline{x}$ via the expression $\underline{x} = \underline{\underline{A}}^{-1}\underline{b} = \dfrac{\underline{\underline{C}}^{T}}{\det \underline{\underline{A}}}\underline{b}$ (show your work…).