

Let $A = \begin{bmatrix} 2 & -2 & 3 & -1 & 6 & 3 \\ 2 & -2 & 3 & 2 & 0 & -3 \\ 4 & -4 & 3 & -3 & 14 & 6 \\ 6 & -6 & 12 & -5 & 22 & 2 \end{bmatrix}$. Use elementary row operations to manipulate A into reduced

echelon form.