$$\begin{array}{lll}
\underbrace{3.0}_{E_3E_2E_1PA} &= \begin{bmatrix} 0 & 0 & 0 \\ 0 & 2y_1 & 0 \end{bmatrix} \begin{bmatrix} -5 & 2 & -1 \\ 0 & 2y_5 & 14/5 \end{bmatrix}}_{0} &= \begin{bmatrix} -5 & 2 & 22y_5 \\ 0 & 2y_5 & 14/5 \end{bmatrix}}_{0} &= \begin{bmatrix} -5 & 2 & 22y_5 \\ 0 & 2y_5 & 14/5 \end{bmatrix}}_{0} &= \begin{bmatrix} -5 & 2 & 22y_5 \\ 0 & 2y_1 & 1 \end{bmatrix}}_{0} \\
U &= \underbrace{E_3 P_3 E_2 P_2 E_1 P_1 A_1}_{0} &= \underbrace{P_3 E_2 P_2 P_1 A_2}_{0} &= \underbrace{P_3 P_2 P_1 A_2}_{0$$