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The remaining three problems all concern the matrix  $A = \begin{bmatrix} 2 & 2 & 3 & 3 & 4 \\ 2 & 3 & 4 & 1 & 4 \\ 2 & 4 & 5 & 0 & 5 \\ 2 & 3 & 4 & 3 & 6 \end{bmatrix}$ .

3. Place  $A$  in echelon form. Be sure to justify each step.

4. Place  $A$  in row canonical form. Be sure to justify each step. You should begin with your answer from (3).

5. Write down a linear system for which  $A$  is an augmented matrix, and interpret your answer from (4) to write down the general solution for your system.