Problem 1. Find a basis for the column space of the following matrix:

$$\begin{pmatrix}
1 & 2 & 1 & 0 \\
0 & 0 & 6 & 2 \\
4 & 8 & 4 & 0 \\
2 & 4 & 5 & 1 \\
0 & 0 & 3 & 1
\end{pmatrix}$$

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