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

$$\begin{pmatrix}
1 & 1 & 5 & 0 & -3 \\
1 & 2 & 8 & 0 & -7 \\
-2 & 0 & -4 & 1 & 0 \\
2 & -1 & 1 & 0 & 6
\end{pmatrix}$$

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