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

$$\begin{pmatrix}
1 & 0 & 3 & 0 & 3 & 2 \\
1 & 1 & 3 & 0 & 5 & 3 \\
1 & 2 & 3 & 1 & 7 & 5 \\
2 & 3 & 6 & 0 & 12 & 7
\end{pmatrix}$$

October 31, 2024 1 of 1