Exercise 1 (5 points)

Use the method of cofactors to find the inverse of the matrix

\[
\begin{pmatrix}
1 & 2 & 0 \\
-1 & 0 & 1 \\
2 & 1 & 1
\end{pmatrix}
\]

Exercise 2 (5 points)

Determine whether \( w = (1,0,1) \) is a linear combination of \( u = (1,1,1) \) and \( v = (-1,0,1) \).
Exercise 1 (5 points)

Use the method of cofactors to find the inverse of the matrix

\[
\begin{pmatrix}
1 & -1 & 2 \\
2 & 0 & 1 \\
0 & 1 & 1 \\
\end{pmatrix}
\]

Exercise 2 (5 points)

Determine whether \( w = (2,0,3) \) is a linear combination of \( u = (1,1,1) \) and \( v = (-1,0,1) \).