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\begin{pmatrix} 1 & 1 & 1 & 1 \\ -1 & 1 & -1 & 0 \\ 1 & 2 & 1 & 2 \end{pmatrix} \sim \begin{pmatrix} 0 & 3 \\ 0 & 3 \\ 0 & 3 \end{pmatrix}

\sim \begin{pmatrix}
1 & 1 & 0 & 0 & 0 & 0 \\
0 & 0 & 1 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 0
\end{pmatrix}

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