Show that
$$A = \begin{bmatrix} 1 & 2 & -4 \\ -3 & -4 & 6 \\ 0 & 0 & -1 \end{bmatrix}$$
 and $B = \begin{bmatrix} -5 & -2 & -2 \\ 12 & 5 & 6 \\ -6 & -3 & -4 \end{bmatrix}$ are similar matrices by

finding an invertible matrix P satisfying $A = P^{-1}BP$.

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$$P^{-1} = \begin{bmatrix} 2 & 3 & 4 \\ -6 & -6 & -7 \\ -3 & -2 & -2 \end{bmatrix}, \quad P = \begin{bmatrix} 2 & 2 & -3 \\ -9 & -8 & 10 \\ 6 & 5 & -6 \end{bmatrix}$$