$$6y = \begin{pmatrix} 0 - i \\ i & 0 \end{pmatrix}$$

$$6 = \begin{pmatrix} 0 & -1 \\ 1 & 2 \end{pmatrix}$$

$$6x 6y = \begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix} \begin{pmatrix} 0 & -i \\ i & 0 \end{pmatrix} = \begin{pmatrix} i & 0 \\ 0 & -i \end{pmatrix} = i 6z$$

$$\begin{cases} c_1 & c_2 = \begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix} \begin{pmatrix} 1 & 0 \\ 0 & -1 \end{pmatrix} = \begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix} = \hat{c} \quad \begin{array}{c} c_1 & c_2 \\ 1 & 0 \end{array}$$

$$\begin{pmatrix} -( \lambda ) = \lambda - ( ) \lambda = 1$$

$$\begin{pmatrix} 1 & -1 \\ -1 & 1 \end{pmatrix} \begin{pmatrix} \chi \\ \chi \end{pmatrix} = 0 \qquad \begin{pmatrix} -1 & -1 \\ -1 & -1 \end{pmatrix} \begin{pmatrix} \chi \\ \chi \end{pmatrix} = 0$$

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