$$\begin{pmatrix} -1 & -6 \\ 2 & 6 \end{pmatrix} \cdot \begin{pmatrix} x \\ y \end{pmatrix} = \lambda \begin{pmatrix} x \\ y \end{pmatrix}$$

$$\begin{cases} -x - 6y = \lambda x \\ 2x + 6y = \lambda y \end{cases} = \lambda x = \lambda x + \lambda y = \lambda x + \lambda x + \lambda y = \lambda x + \lambda x + \lambda y = \lambda x + \lambda x$$

$$\begin{pmatrix} -1 & -6 \\ 2 & 6 \end{pmatrix} \begin{pmatrix} 2 \\ -1 \end{pmatrix} \stackrel{?}{=} \begin{pmatrix} 4 \\ -2 \end{pmatrix} = 2 \cdot \begin{pmatrix} 2 \\ -1 \end{pmatrix}$$

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