$$\vec{a} = x\vec{c} + y\vec{d}$$

$$\begin{pmatrix} -1 \\ 1 \end{pmatrix} = x\begin{pmatrix} 2 \\ -6 \end{pmatrix} + y\begin{pmatrix} 1 \\ 11 \end{pmatrix}$$

$$\begin{pmatrix} -1 \\ 1 \end{pmatrix} = \begin{pmatrix} 2x \\ -6x \end{pmatrix} + \begin{pmatrix} y \\ 11y \end{pmatrix} = \begin{pmatrix} 2x+y \\ -6x+11y \end{pmatrix}$$

$$\begin{cases} -1 = 2x+y \\ 1 = -6x+11y \end{cases} \qquad y = -2x-1$$

$$1 = -6x + 11(-2x-1)$$

$$1 = -6x - 22x - 11$$

$$28x = -12$$

$$x = -\frac{12}{28} = -\frac{3}{7} \approx -0{,}42$$

$$y = -2x-1 = \frac{6}{7} - 1 = -\frac{1}{7} \approx -0{,}14$$