$$y_{n+1} = y_n + \alpha \cdot y_{n-1}, \quad \text{met} \begin{pmatrix} y_1 = 1 \\ y_0 = 1 \end{pmatrix}$$

$$\begin{pmatrix} y_{n+1} \\ y_n \end{pmatrix} = \begin{pmatrix} 1 & \alpha \\ 1 & 0 \end{pmatrix} \begin{pmatrix} y_n \\ y_{n-1} \end{pmatrix}$$

maple

$$\rightarrow \quad A^k = Q \cdot J^k \cdot Q^{-1} \cdot u_0$$

we pakken direct de dominante vector eruit.

$$\lim \left(\frac{y_{n+1}}{y_n} \right) \Leftrightarrow \frac{1}{2} - \frac{\sqrt{1+4a}}{2} = 3$$

$$\Leftrightarrow \frac{\sqrt{1+4a}}{2} = -2{,}5$$

$$\Leftrightarrow \sqrt{1+4a} = -5$$

kwadraat $\Leftrightarrow 1 + 4a = 25$

$$\Rightarrow \boxed{a = 6}$$