Gran is Net
$$A = PDP^{-1}$$
, with $P = \begin{pmatrix} -2 & 0 & -1 \\ 0 & 1 & 2 \\ 0 & 0 & 0 \end{pmatrix}$
and $P = \begin{pmatrix} 0 & -1 & 0 \\ 0 & 0 & 0 \end{pmatrix}$. Compute A^{100}

$$A^{100} = PD^{100}P^{1}$$

$$P^{-1} = \frac{a_{11}(P)}{|P|} = \frac{|P_{11}|}{|P|} = \frac{|P|}{|P|} =$$