$$\left[\begin{array}{c} -55 \\ 71 \end{array}\right] + 3 \left(\begin{array}{c} 35 \\ 71 \end{array}\right) - \left[\begin{array}{c} 3-5 \\ 72 \end{array}\right]$$

$$(-5^{-10}) + 3(-7) - 1(16)$$
 6 +0

$$A^{8} = \begin{pmatrix} 2/3 & 1 \\ 1 & 1 \end{pmatrix} \begin{pmatrix} 2^{8} & 0 \\ 0 & 1^{8} \end{pmatrix} \begin{pmatrix} 3 & -3 \\ -3 & 2 \end{pmatrix}$$