Exercice 9:

1)  $\int U_0 = 6$   $U_1 = 4$  $V_n \in W$ ,  $U_{n+2} = \frac{3}{4}U_{n+1} - \frac{3}{8}U_n$ 

 $\Delta = b^2 - 4ac = \left(-\frac{5}{4}\right)^2 - 4x1x\frac{3}{8}$ 

 $=\frac{25}{16} - \frac{12}{8} - \frac{7}{16}$ 

267= 4 - 1

212 = 3 = 3

 $U_{m} = \alpha \left(\frac{3}{4}\right)^{m} + m \beta \left(\frac{1}{2}\right)^{m} \quad (\alpha, \beta) \in \mathbb{R}^{2}$ 

Done: Yn EIN, Un = 4x (3) +2x (1) m