GL. 113

1.
$$b = \begin{vmatrix} 3 & -3 & 2 & 3 \\ -2 & 7 & -2 & 5 \\ 0 & 0 & 3 & 7 \end{vmatrix} = 3 \cdot (-1)^{1+1} \cdot \begin{vmatrix} 7 & -2 & 5 \\ 0 & 3 & 7 \\ 0 & 1 & 5 \end{vmatrix} +$$

$$+(-2)\cdot(-1)^{2+1}\cdot\begin{vmatrix}3&2&3\\0&3&7\\0&1&5\end{vmatrix}=3(105-19)+2(15-21)=$$

(a)
$$\Delta_2 = \begin{vmatrix} 7 & 1 \\ 6 & 7 \end{vmatrix} = 19 - 6 = 13$$

 $\Delta_3 = \begin{vmatrix} 7 & 1 & 0 \\ 6 & 7 \end{vmatrix} = 313 - 12 - 12 = 7327 259$

(c) Pp. aderonalà $\Delta m = \frac{6^{m+1}-1}{5}$ Cf. b): $\Delta m = 4 \Delta_{m-1} - 6 \Delta_{m-2} = 4 \cdot \frac{6^{m-1}-1}{5} - 6 \cdot \frac{6^{m-1}-1}{5} = \frac{4 \cdot 6^{m-1}-1}{5} - \frac{6^{m-1}-1}{5} = \frac{4 \cdot 6^{m-1}-1}{5} - \frac{6^{m-1}-1}{5} = \frac{6$