A 2.4

$$h[n] = \left(h_1 * \left(h_2 - h_3 * h_4 \right) \right) [n]$$

$$\left(h_3 * h_4 \right) [n] = h_2 [n-1]$$

$$h_2[n] - h_2[n-1] = (n+1)\sigma[n] - n\sigma[n-1] = \sigma[n]$$

$$\left(h_1 * \sigma \right) [n] = \sum_{k=-\infty}^{\infty} \left(\tfrac{1}{2} \right)^k \sigma[k] \, \sigma[n-k] =$$

$$= \sigma[n] \sum_{k=0}^{n} \left(\tfrac{1}{2} \right)^k = \frac{1 - \left(\tfrac{1}{2} \right)^{n+1}}{1 - \tfrac{1}{2}} \sigma[n] =$$

$$= \left\{ 2 - \left(\tfrac{1}{2} \right)^n \right\} \sigma[n]$$