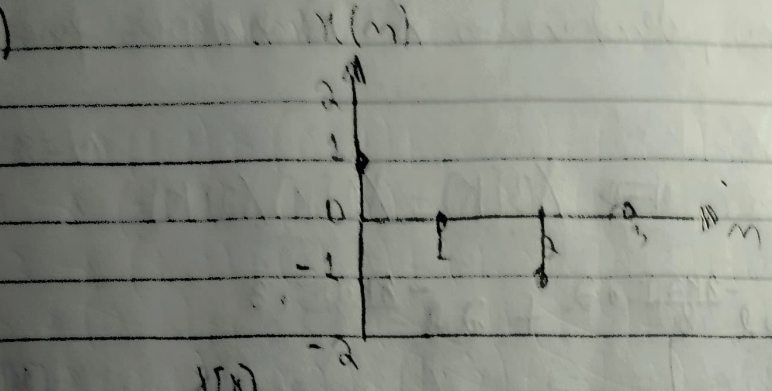
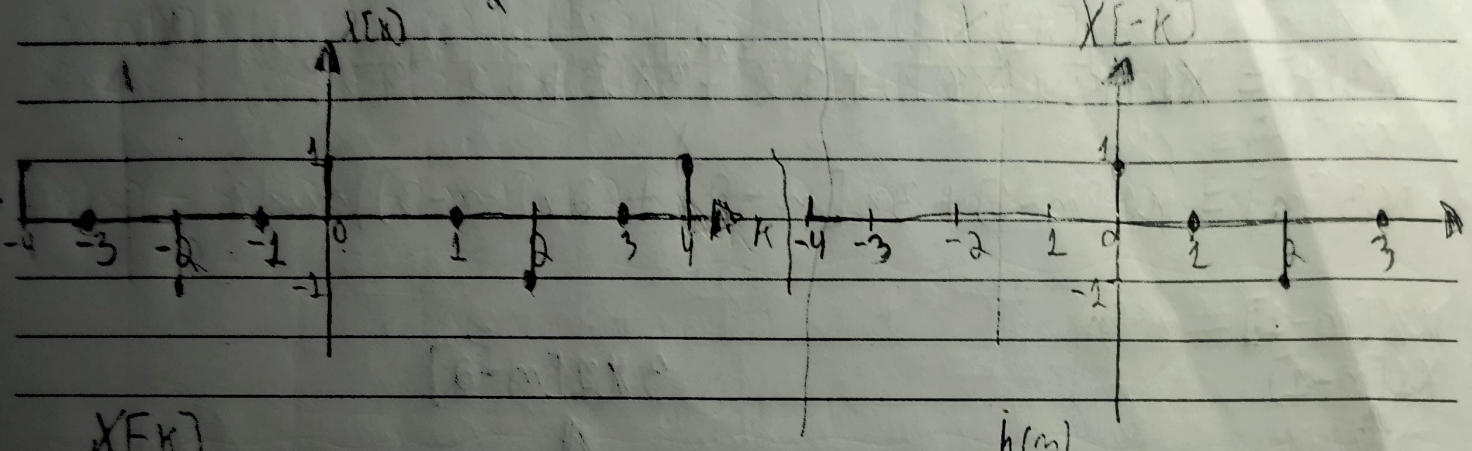
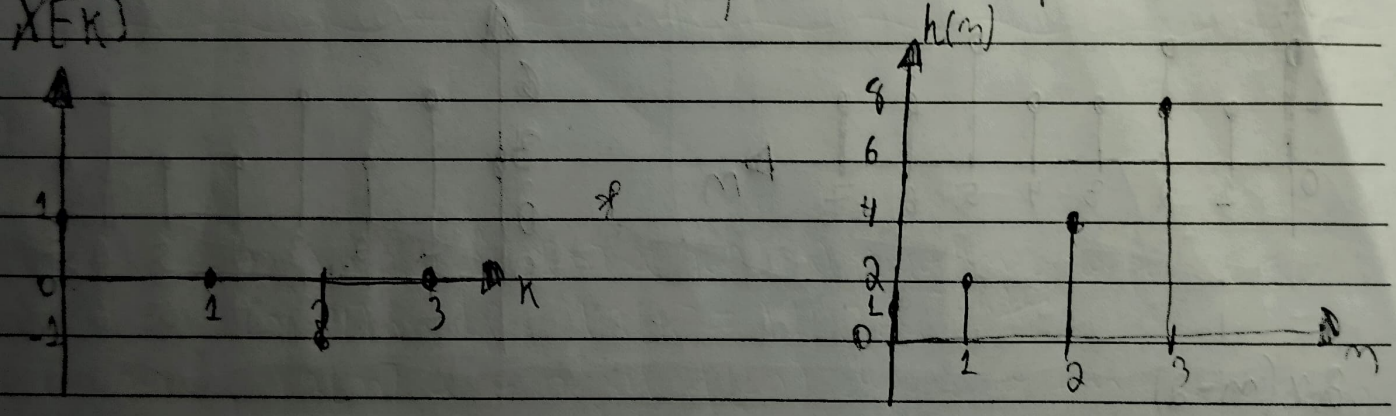
2.c)







$y(0) = (1 \cdot 1) + (-1 \cdot 4) = 1 - 4 = -3$

$y(1) = (1 \cdot 2) + (-1 \cdot 8) = 2 - 6 = -6$

$y(2) = (1 \cdot 4) + (-1 \cdot 1) = 4 - 1 = 3$

$y(3) = (1 \cdot 8) + (-1 \cdot 2) = 8 - 2 = 6$

$y(n) = -3\delta(n) - 6\delta(n-1) + 3\delta(n-2) + 6\delta(n-3)$