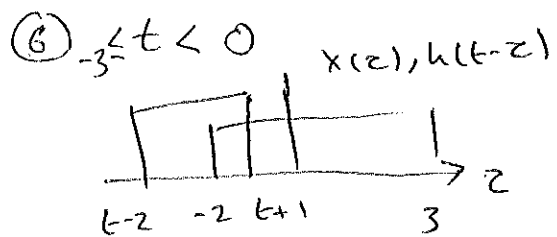
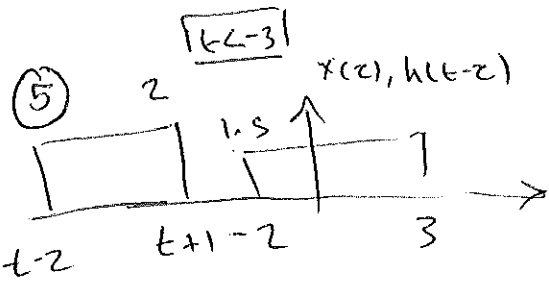
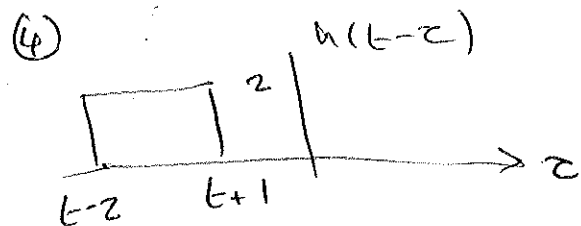
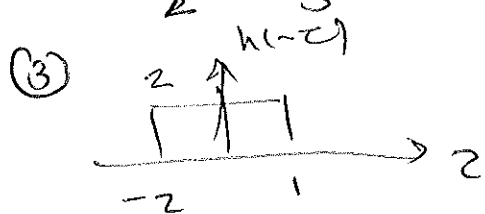
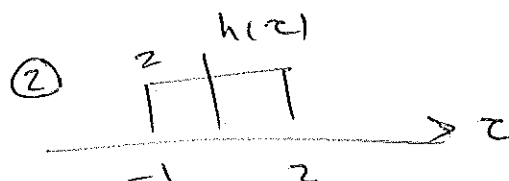
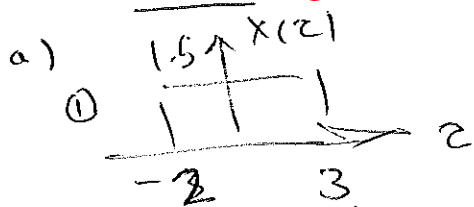
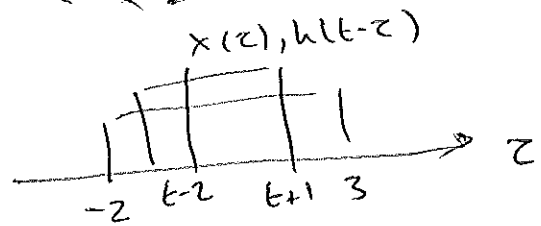


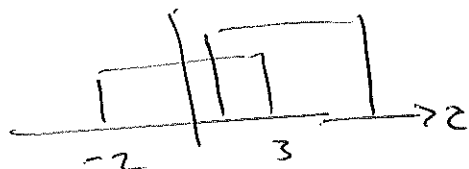
Question 3



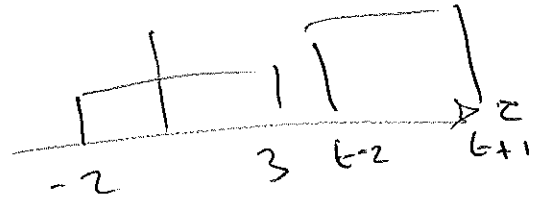
⑦ $0 \leq t \leq 2$



⑧ $2 \leq t \leq 5$



⑨ $t \geq 5$



$$-3 \leq t \leq 0 \quad y(t) = \int_{-2}^{t+1} 3 dz = 3(t+3)$$

$$0 \leq t \leq 2 \quad y(t) = \int_{t-2}^{t+1} 3 dz = 9$$

$$2 \leq t \leq 5 \quad y(t) = \int_{t-2}^3 3 dz = 3(5-t)$$

$$y(t) = \begin{cases} 0 & t < -3 \\ 3(t+3) & -3 \leq t \leq 0 \\ 9 & 0 \leq t \leq 2 \\ 3(5-t) & 2 \leq t \leq 5 \\ 0 & t > 5 \end{cases}$$

