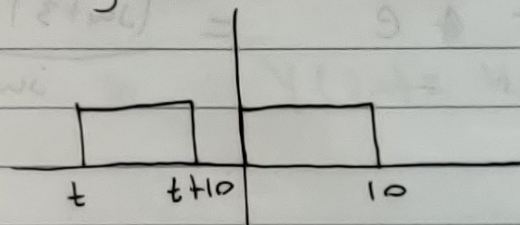


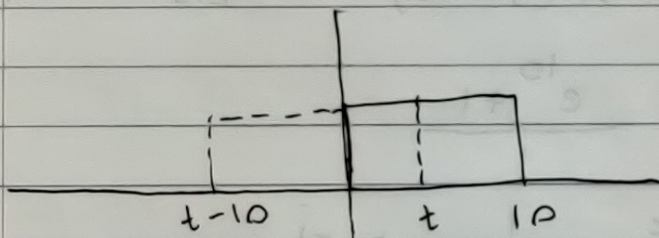
A.1) $x(t) = u(t) - u(t-10)$ (2-49) \pm (4) $0-5 = (3) \times (0)$
 $z(t) = x(t) * x(t)$

Region 1: $t \leq 0$



$$y(t) = 0$$

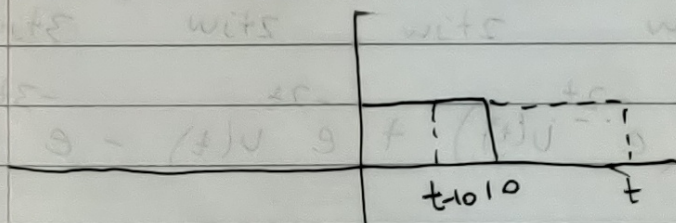
Region 2: $0 < t < 10$



$$y(t) = \int_0^t (1)(1) d\tau$$

$$y(t) = t$$

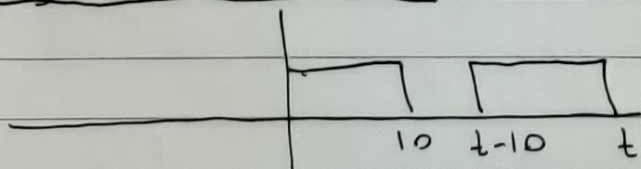
Region 3: $10 < t < 20$



$$y(t) = \int_{t-10}^{10} (1)(1) d\tau$$

$$y(t) = 20 - t$$

Region 4: $t \geq 20$



$$y(t) = 0$$

$$z(t) = x(t) * x(t)$$

