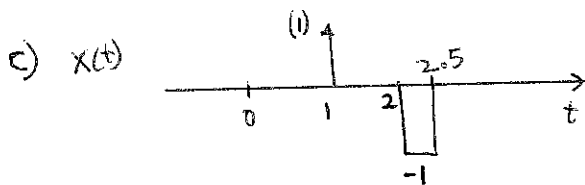
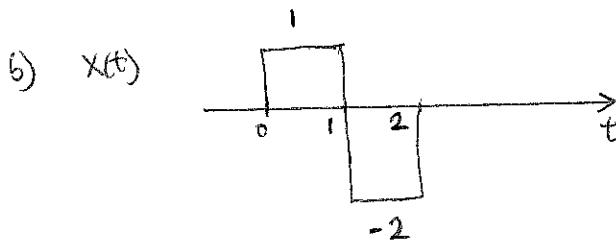
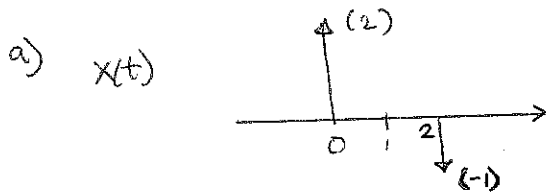


①  $f(t) = \sin(\frac{\pi}{2}t)$ ,  $g(t) = \sum_{k=-\infty}^{\infty} \delta(t-2k-1)$

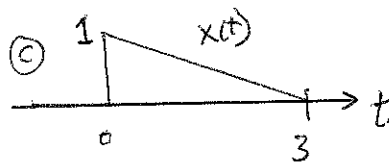
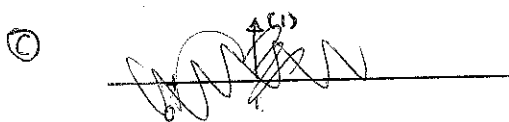
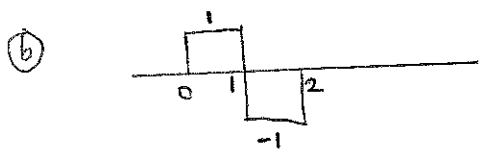
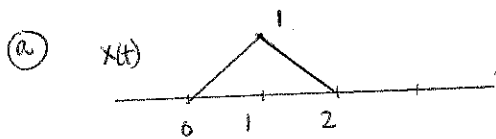
plot  $f(t)$ ,  $g(t)$ , &  $x(t) = f(t) \cdot g(t)$

② sketch  $y(t) = \int_{-\infty}^t x(\tau) d\tau$  for each of the following 3 signals

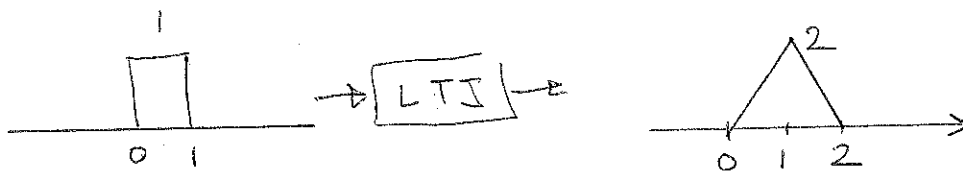


← OPTIONAL

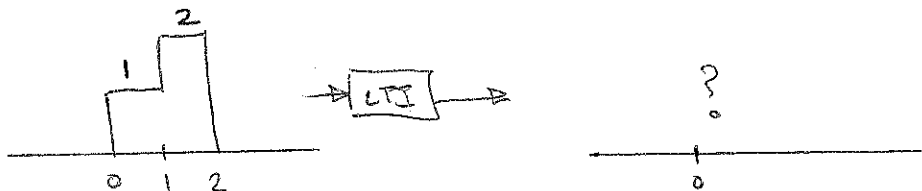
③ sketch  $y(t) = \frac{d}{dt} x(t)$  for the following



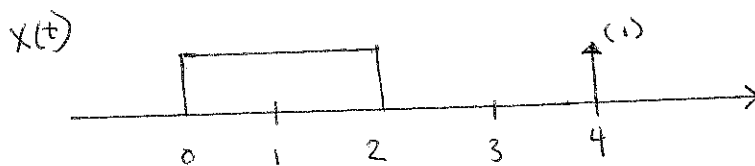
④ You observe of an unknown LTI system that



what is the output of this system when:



⑤



sketch  $y(t) = \int_{t-1}^t \cancel{x(\tau)} d\tau$