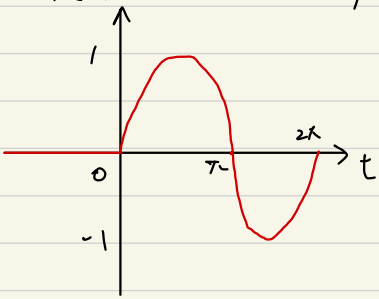
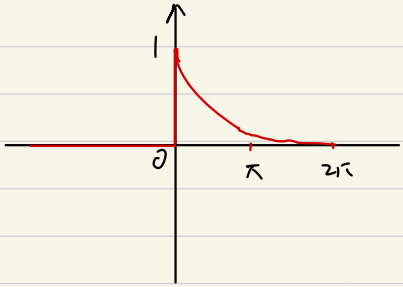
課題4 12/19 52122305 岩崎航弥

4-1 $x_4(t) = \sin t \cdot u_s(t)$

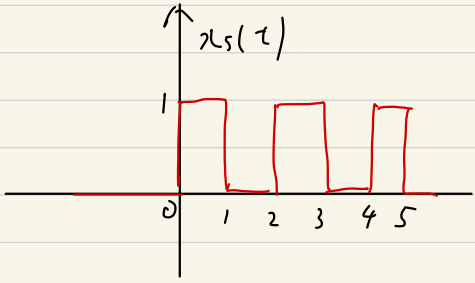


4-2 $x_5(t) = e^{-t} \cdot u_s(t)$



4-3

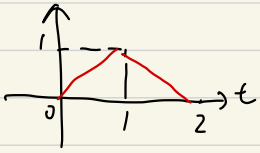
4-4



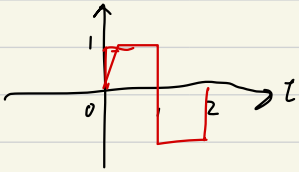
$x_4(t) = u_s(t) - 2u_s(t-2) + u_s(t-4)$

$x_5(t) = \sum_{n=0}^{n=\infty} \{u_s(t-2n) - u_s(t-(2n+1))\}$

4-5



4-6



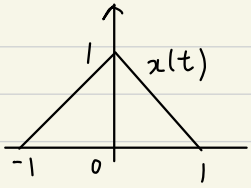
$x_6(t) = u_s(t) - u_s(t) + t u_s(t) - 2(t-1)u_s(t-1) + (t-2)u_s(t-2)$

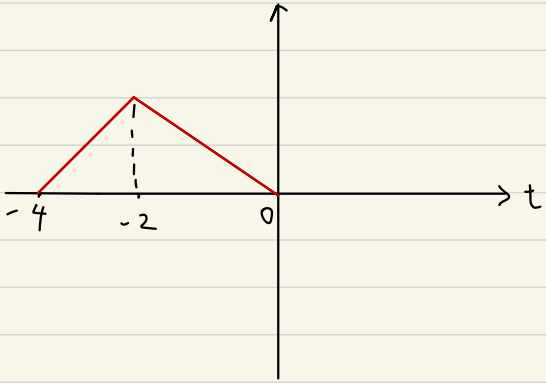
$x_7(t) = u_s(t) - 2u_s(t-1) + u_s(t-2)$

$= t u_s(t) - 2(t-1)u_s(t-1) + (t-2)u_s(t-2)$

4-7

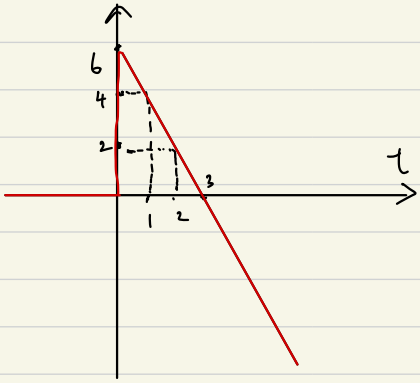
$y(t) = x(0.5t + 2)$





4-8

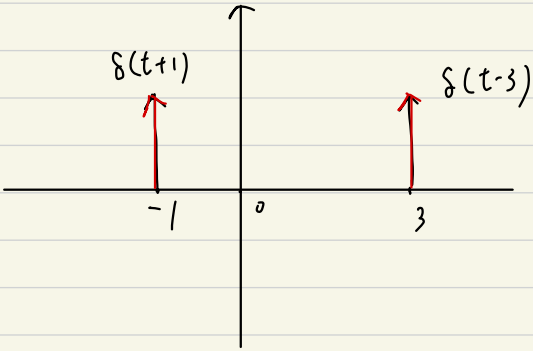
$u_s(6 - 2t)$



4-9

$\delta(t^2 - 2t - 3)$

$\delta(t-3)(t+1)$



4-10

$e^{-t}\sin t \cdot u_s(t)$