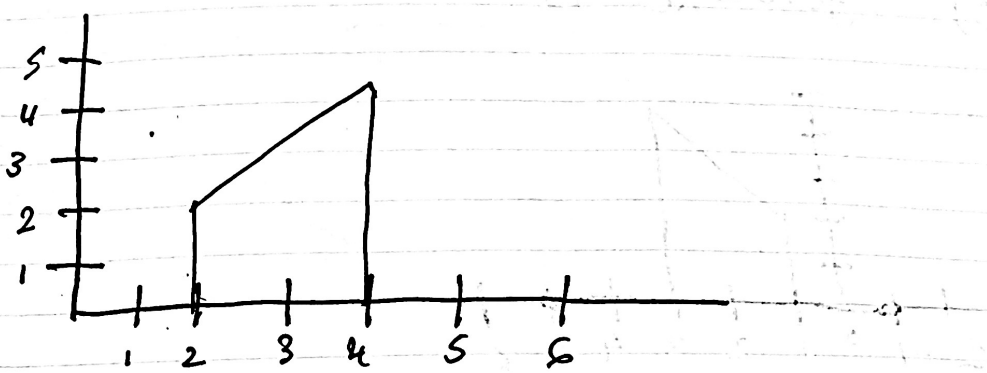
Signals and Systems
HW1

ELEC-2120-005

Jacob Howard

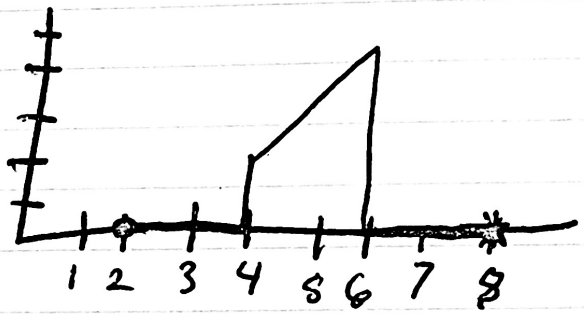
1



a) This is a continuous time signal

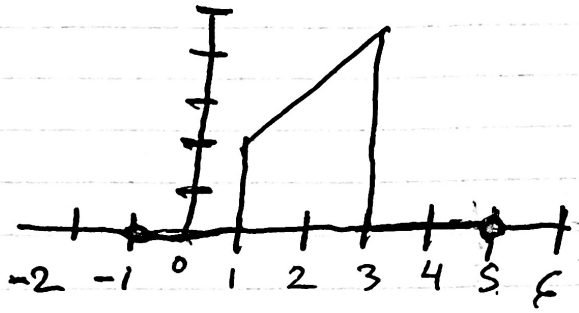
b) Yes, this signal is casual because the given signal is zero for the negative values of the idependant variable

c) $y(t) = x(t-2)$

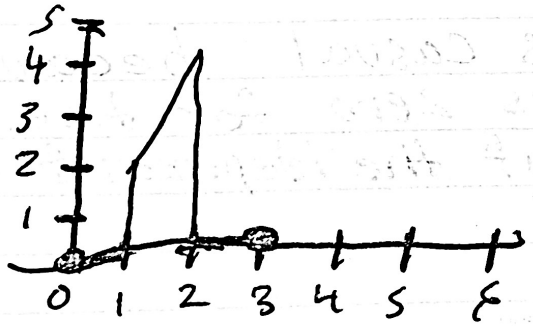


SigSys HW1

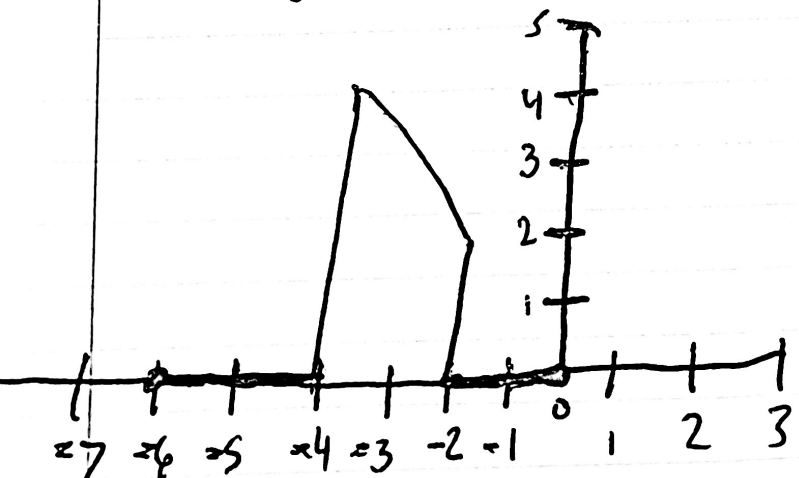
d) $y(t) = x(t+1)$



e) $y(t) = x(2t)$

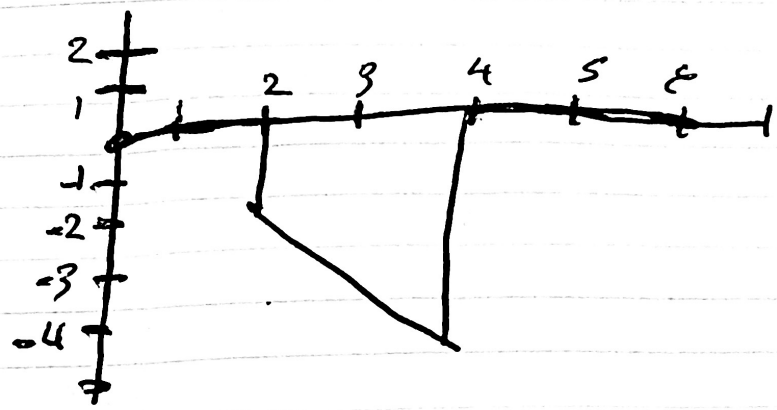


f) $y(t) = x(-t)$

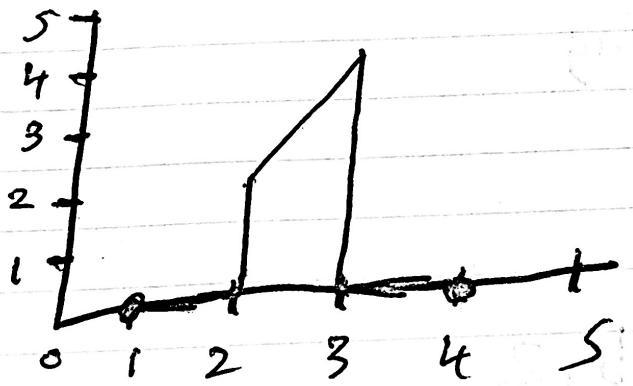


SigSys HW1

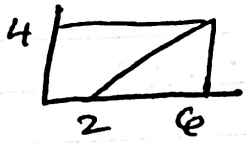
g)



h) $y(t) = x(2t-1)$



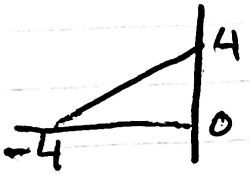
1.11



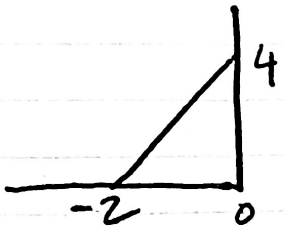
a)

$x(2t+6)$

$x(t+6)$

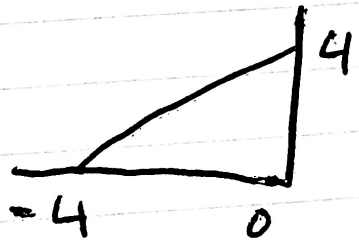


$x(2t+6)$

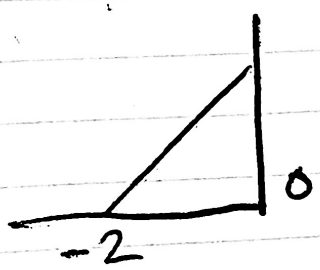


b) $x(-2t+6)$

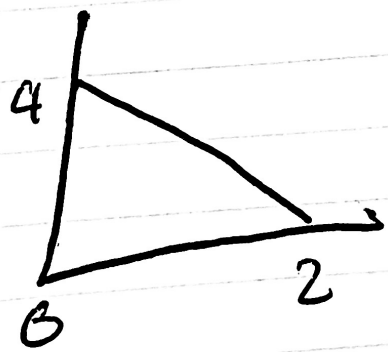
$x(t+6)$



$x(2t+6)$

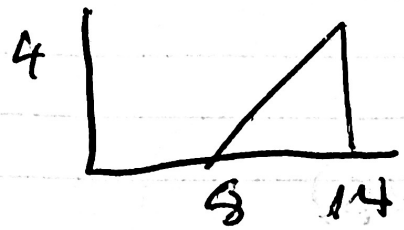


$x(-2t+6)$

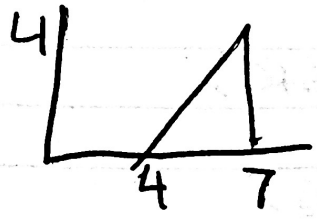


c) $x(-2t-6)$

$x(t-6)$



$x(2t-6)$



$x(-2t-6)$