HW2 EE480 Lamin Jammeh

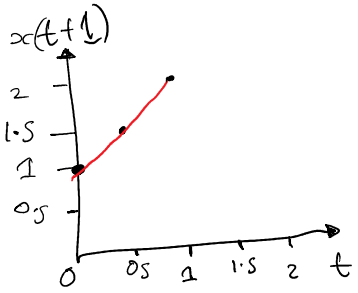
Thursday, August 31, 2023 10:04 PM

1.26

$x(t) = t \quad 0 \le t \le 1$

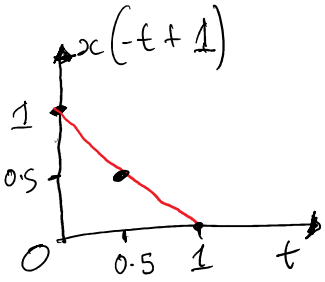
$x(t+1) = t$

t	$x(t+1)$
0	1
0.5	1.5
1	2



$x(-t+1) = t$

t	$x(-t+1)$
0	1
0.5	0.5
1	0

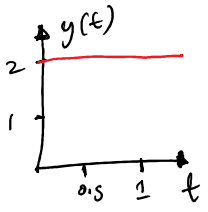


$y(t) = x(t+1) + x(-t+1)$

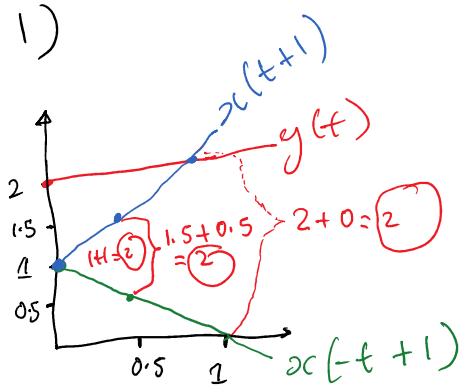
$y(t) = t+1 + (-t+1)$

$y(t) = t - t + 1 + 1$

$y(t) = 2$



$=$



Analysis

Note

Adding y-axis of $x(t+1)$ & $x(-t+1)$ Always result to 2 at any point on both graphs if x-axis is kept the same on both graphs