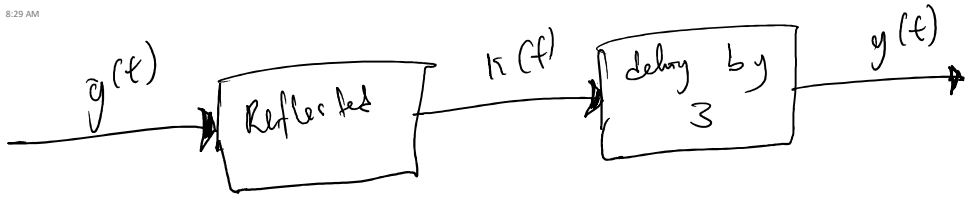
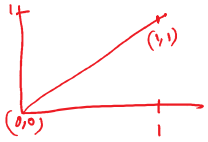
1a

Wednesday, October 25, 2023 8:29 AM





$g(t) = mt + b$

$b = 0$

$m = \frac{1-0}{1-0} = 1$

$g(t) = t$

$g(t)$ reflected $= k(t)$

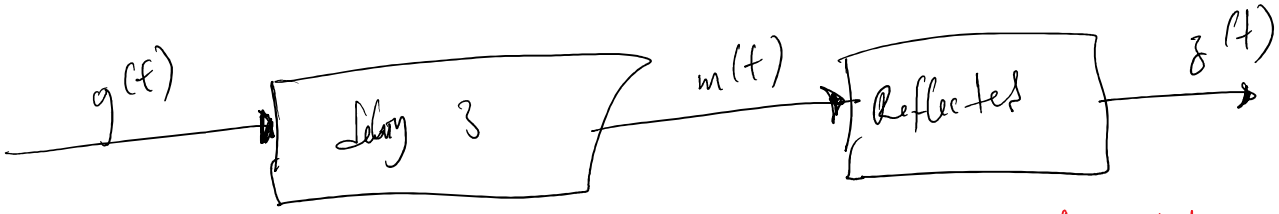
$k(t) = g(-t)$ Ans

$k(t)$ delay $= y(t)$

delay $= 3$

$y(t) = k(t+3)$ Ans

Check matlab for plots



$g(t) = t$

$g(t)$ delay by $3 = m(t)$

$m(t) = g(t+3)$

$m(t) = t+3$ Ans

$m(t)$ reflected by $z(t)$

$z(t) = m(-t)$

$z(t) = -t-3$ Ans