torsdag 22 februari 2024

a)

$$h = S S = LOS + O(t)$$

 $H(S) = \frac{S}{S^2 + 1}$
 $80 = S cos T d T O(t) = S in + O(t)$

$$F(s) = \frac{1}{s+1}$$

$$Y(s) = \frac{Y(s)}{F(s)} = \frac{S+1}{s^2}$$

$$Y(s) = \frac{1}{s^2}$$

$$h(t) = O(t) + t O(t) = (t+1) O(t)$$

$$S O = S^{t} (t+1) J + O(t) = \frac{t+1}{2} O(t)$$

$$\frac{C}{|S|} = \frac{-s}{s^2}$$

$$\frac{1}{|S|} = \frac{1}{|S|}$$

$$H(s) = \frac{Y(s)}{F(s)} = e^{-s}$$

$$SO(t) = \int_{-\infty}^{t} S(T-1) dT = O(t-1)$$

S.21