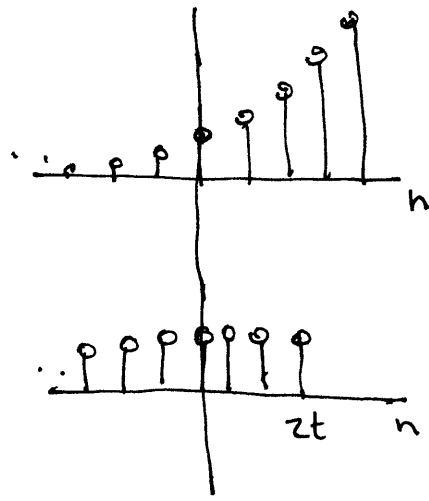


1.25 f  $x(t) = \sum_{n=-\infty}^{\infty} e^{-(zt-n)} \cdot u^{(zt-n)}$



$$x(t) = e^{-zt} \sum_{n=-\infty}^{\infty} e^{n} \cdot u^{(zt-n)}$$

$$x(t) = e^{-zt} \sum_{n=-\infty}^{zt} e^{n}$$

Let  $r = -n$

$$x(t) = e^{-zt} \sum_{r=2t}^{\infty} e^{-r} = e^{-zt} \left( \sum_{r=0}^{\infty} e^{-r} - \sum_{r=0}^{2t} e^{-r} \right)$$

$$x(t) = \left( \frac{e}{e-1} \right) e^{4t} \quad \text{not periodic}$$