

terça-feira, 16 de março de 2021 17:38

$$x(n) = b \delta(n+1) + a \delta(n) + b \delta(n-1)$$

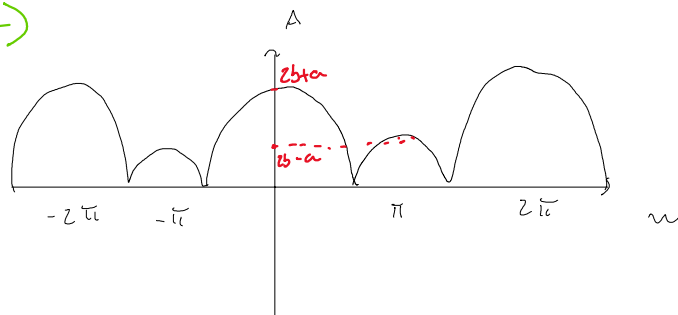
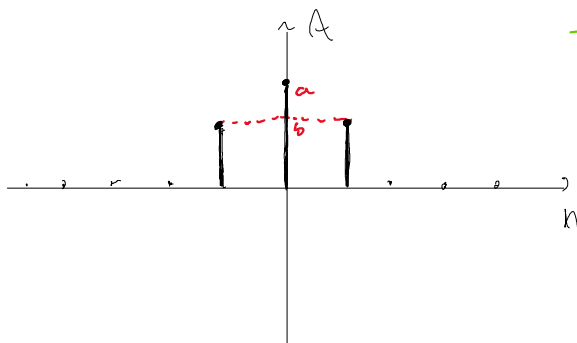
$$Z_T \{ x(n) \} = bZ + a + bZ^{-1} = b e^{j\omega} + a + b e^{-j\omega} =$$

$z = e^{j\omega}$

$$= b \left(\cos(\omega) + j \sin(\omega) + \cos(-\omega) + j \sin(-\omega) \right) + a$$

$$= b (2 \cos(\omega)) + a$$

TF →



módulo : $2b \cos \omega + a$

fase : \emptyset rad/s

$$\operatorname{Re} \{ X(\omega) \} = 2b \cos \omega + a$$

$$\operatorname{Im} \{ X(\omega) \} = \emptyset$$