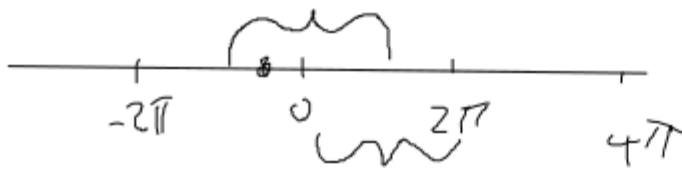
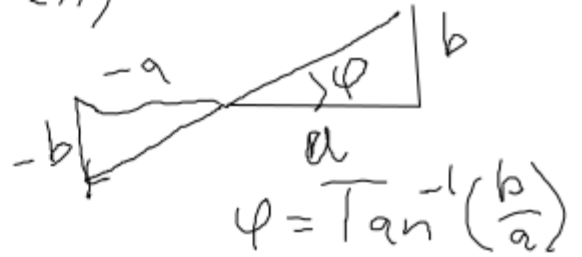
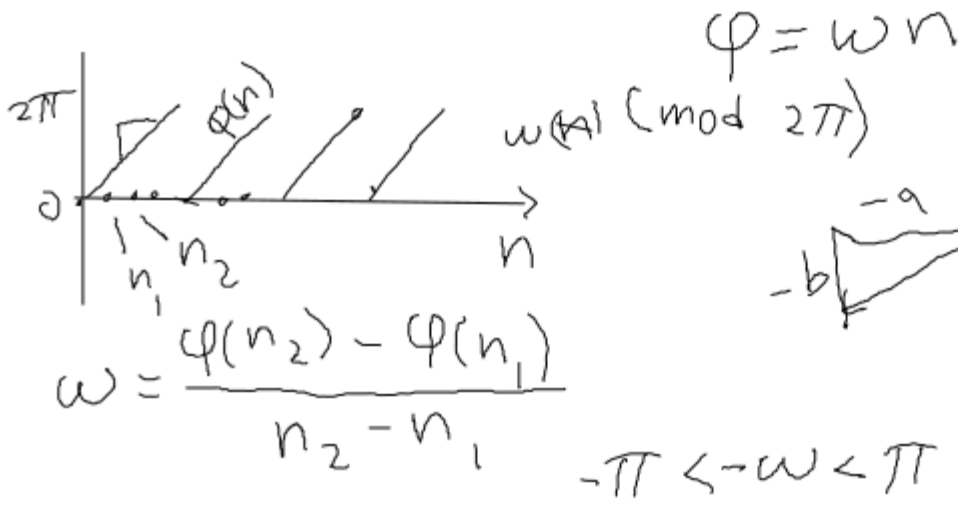


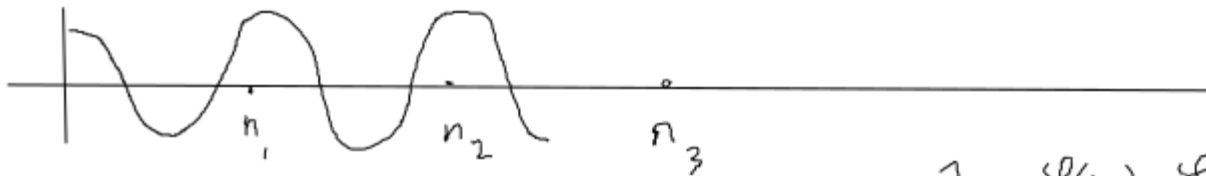
$$\cos(\omega n) + j \sin(\omega n)$$

↑  
time  
in  
samples



$$\left[ \frac{(\omega + \pi)}{\text{mod } 2\pi} \right]$$

$-\pi$



$$\hat{\omega}_{12} = \frac{\varphi(n_2) - \varphi(n_1)}{n_2 - n_1} \quad \hat{\omega}_{23} = \frac{\varphi(n_3) - \varphi(n_2)}{n_3 - n_2} \quad \hat{\omega}_{13} = \frac{\varphi(n_3) - \varphi(n_1)}{n_3 - n_1}$$

$$= \frac{(n_3 - n_2)\hat{\omega}_{23} + (n_2 - n_1)\hat{\omega}_{12}}{(n_3 - n_2) + (n_2 - n_1)}$$



$$\omega_{12} = \frac{\varphi(n_2) - \varphi(n_1) + k \cdot 2\pi}{n_2 - n_1}$$

