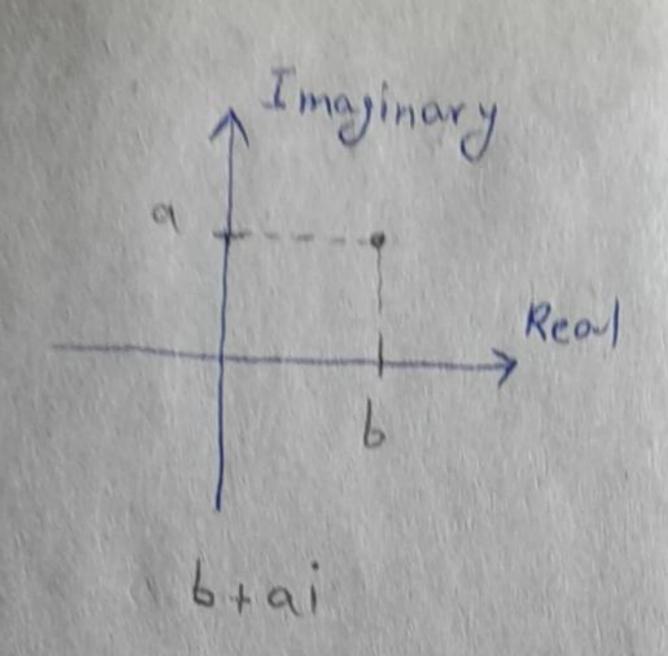
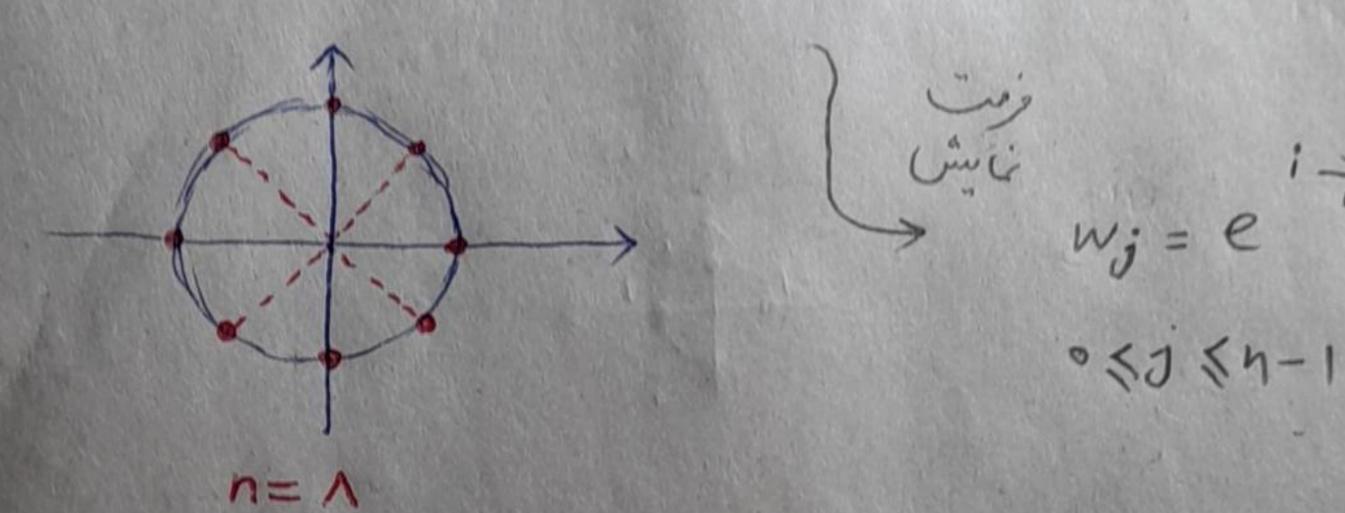
bisine milit



$$w_j = \cos \frac{j}{n} \gamma \pi + i \sin \frac{j}{n} \gamma \pi$$

\* رسترهای راحد



busilisticis divide and conquer \*

$$A(x) = a_0 + a_1 x' + a_1 x'' + \dots + a_n x''$$
 $X = \{w_0, w_1, \dots, w_n\}$ 

$$A(x) = Aeven(x') + x Aodd(x')$$

$$Z = ?$$

$$Y = ?$$

$$Coly \longrightarrow W_{g} = e^{i\frac{y}{n}}r\pi$$

$$X = \{w_{0}, \dots, w_{n}\}$$

$$\Rightarrow w_{g}^{l} = e^{i\frac{y}{n}}r\pi = e^{i\frac{y}{n}}r\pi$$

$$A(1) = a_{0}+a_{1}+a_{1}+a_{1}$$

$$A(1) = a_{0}-a_{1}+a_{1}-a_{1}$$

$$A(1) = a_{0}-a_{1}+(a_{1}-a_{1});$$

$$A(1) = a_{0}-a_{1}+(a_{1}-a_{1});$$

$$Aodd(1) = a_{1}-a_{1}$$

$$A(1) = Aeven(1) + x Aodd(x')$$

$$A(1) = Aeven(1) + x Aodd(1) = a_{0}-a_{1}+a_{1}-a_{1}$$

$$A(1) = Aeven(1) + (1) \times Aodd(1) = a_{0}-a_{1}+a_{1}-a_{1}$$

$$A(1) = Aeven(1) + (1) \times Aodd(1) = a_{0}-a_{1}+(a_{1}-a_{1});$$

$$A(1) = Aeven(1) + (1) \times Aodd(1) = a_{0}-a_{1}+(a_{1}-a_{1});$$

 $T(n, |x|) = rT(\frac{n}{r}, \frac{|x|}{r}) + O(|x|)$   $|x| \to o(n)$   $|x| \to o(n)$   $|x| \to o(n)$