* i power raches

$$i^{2} = -1$$
 $i^{3} = -i$
 $i^{4} = 1$
 $i^{5} = i^{4}$
 $i^{5} = i^{4}$

Wo = -1

operations

$$W_{M} = e^{-\frac{2\pi i}{N}}$$

$$w_8^2 = -1$$