$Z_1 + Z_2 := (z_1 \cos \lambda + z_2 \cos \beta) + (z_1 \sin \lambda + z_2 \sin \beta) \bar{z}$   $Z_1 Z_2 := z_1 (\cos \lambda + i \sin \lambda)$ .  $z_2 (\cos \beta + i \sin \beta) =$   $= z_1 z_2 ((\cos \lambda \cos \beta - \sin \beta)) + i (\cos \lambda + \cos \beta + \cos \beta)$   $= z_1 z_2 (\cos \lambda \cos \beta - \sin \beta) + i (\cos \lambda + \cos \beta + \cos \beta)$  $= z_1 z_2 (\cos \lambda + \cos \beta) + i \cos \lambda + i \cos \lambda$ 

= 
$$\frac{7}{7}\frac{2}{4}$$
 (  $\frac{2}{7}$ 

$$Z^{n} = g^{n} \left( \cos ng + i \sin ng \right)$$

Apopuyna in crowenybake /  $Z \neq na$ 
 $ka$  blookep

 $(1+i)^{2021} = \left( \left[ 2 \left( \cos \frac{94}{4} + i \sin \frac{94}{4} \right) \right]^{2021} = 3$ 
 $3 = 3 \left( \cos 0 + i \sin 9 \right)$ 
 $-7 = 7 \left( \cos 9 + i \sin 9 \right)$ 
 $2i = 2 \left( \cos 9 + i \sin 9 \right)$ 
 $2i = 2 \left( \cos 9 + i \sin 9 \right)$ 
 $-7i = 9 \left( \cos \frac{34}{2} + i \sin \frac{94}{2} \right) = 9 \left( \cos \frac{9}{2} + i \sin \frac{94}{2} \right)$ 

? \$ 6 (-9,0) U [997] : COS\$ = 1/52 8125 = 1/62

= ( \overline{\sigma\_2}) = (\overline{\sigma\_2}) = (\o

= (12)2021 (cos # + 284 # )=

Z"=1, ZEC [1] GR корения се наригая пли корени ка единивата, коно се тогатели WR = (COS 2KA + ison 2KA), Kz94-1, n-1. 4 Wx ca bapsobere xa upabunnus M-202 MUX brucon le equina Oxpopkoct. W6 = 1 Wk = W,K  $\left\{\left|\left\{\frac{\mathcal{C}(\cos 9 + i \sin 9)}{\mathcal{C}(\cos \frac{9 + 2 k g}{h} + i \sin \frac{9 + 2 k g}{h})\right\}\right| \times = 9 L_{-1} n - 4$ dopuyaa sa kopenykena un II-pa,

The 
$$(1+i03)^{34}$$
 = ?  $(-1+i)^{13}$  = ?  $(-1+i$ 

(a+657) \* (c+d57):= (ac+76d)+(ad+6c) 7
A1+A9 => wore Q = B(57) = R
Q(57, 58) = { a+657+c58 +d 57.13 | acs, cd = Q3}

$$Z_{4} = \{ \overline{0}, \overline{1}, \overline{2}, \overline{3}, \overline{7}, \overline{5}, \overline{6} \} = \{ -\overline{3}, -\overline{2}, -\overline{1}, \overline{0}, \overline{1}, \overline{2}, \overline{3} \}$$

$$\overline{\alpha} = \{ \overline{3}, -\overline{2}, -\overline{1}, \overline{0}, \overline{1}, \overline{2}, \overline{3} \}$$

$$\overline{\alpha} = \{ \overline{3}, -\overline{2}, -\overline{1}, \overline{0}, \overline{1}, \overline{2}, \overline{3} \}$$

$$\overline{\alpha} = \{ \overline{3}, -\overline{2}, -\overline{1}, \overline{0}, \overline{1}, \overline{2}, \overline{3} \}$$

$$\overline{\alpha} = \{ \overline{3}, -\overline{2}, -\overline{1}, \overline{0}, \overline{1}, \overline{2}, \overline{3} \}$$

 $\begin{array}{lll}
\mathcal{Z}_{p} = \left\{ \overline{0}, \overline{1}, \ldots, \overline{p-1} \right\} & -\text{tracobe} \\
\text{p-upooro unono} & \text{uo mogyn } \underline{p} \\
\mathcal{Z}_{p} = \left\{ \overline{0}, \overline{1}, \overline{2}, \overline{3}, \overline{9}, \overline{5}, \overline{6} \right\} & (-\overline{9}) = \overline{3} \quad \overline{9}^{-1} = \overline{2} \\
\mathcal{Z}_{p} = \left\{ \overline{0}, \overline{1}, \overline{2}, \overline{3}, \overline{9}, \overline{5}, \overline{6} \right\} & (-\overline{9}) = \overline{3} \quad \overline{9}^{-1} = \overline{2} \\
\overline{\alpha} + \overline{6} := \overline{\alpha + 6} \quad ; \quad \overline{\alpha} \overline{6} := \overline{\alpha} \overline{6} \\
\overline{3} + \overline{6} = \overline{9} = \overline{2} \quad \overline{3} \cdot \overline{6} = \overline{9} \\
\overline{10} + \overline{13} = \overline{2} \quad \overline{10} \cdot \overline{13} = \overline{9}
\end{array}$ 

Zp-worl A1+A9 ca 6 and Zz=50,73