In class, we wanted to show  $x: C_*(*) \otimes C_*(*) \longrightarrow C_*(* \times *)$ induces an isomorphism on homology by a direct calculation of  $H_*(C_*(*)\otimes)C_*(*)$ : L, O, O, ---From (\*(\*) = 7 0 7 1 7 0 7 1 ... we drew

Teo Ze1 Ze0 Ze Cp(\*)

According to the boundary formula for C\*(\*) 
$$\otimes$$
C\*(\*)

 $\partial_n = \sum_{p+q=n} \partial_p \otimes id + (-1)^p id \otimes \partial_q$ 

we then have

