

so if we generalize this to in Fart C Then this means we need an I that is max while within C, and also is  $\leq f(x)$ , whereas so optimal sol of probl = x e C, such f(x) = mox And optimal Sol of prob2 \_\_\_\_ max is  $r \in c \cap Fr$  julione  $f(x) \geq r$ And by the graphild method earlier, this

very your when max f(x) = rs.t. x, re C ad recorrito