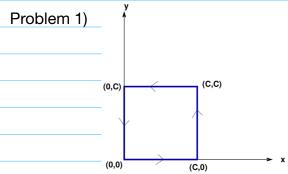
PHYS121 - Homework 9



· FE Ayî+ Bxg L: th OLA SBER · Countralockinisa director arounda Square with Side leigh C

$$\oint \vec{r} \cdot d\vec{r} = O + BC^{S} - AC^{2} + O = C^{2}(BC^{3} - A)$$
 . $V_{\vec{r}} = C^{2}(BC^{3} - A)$

b) The work done along to closed pathis zero, so by deshowin F is not conscruction. Unless (BC3-A)=0, then for five does non-zero work. Even tens to force is not guarated to be consciente along any petry as consulte free don't Core about path. This is just like the normal free Porc For F is not consone the



d) Cof AM

Conditions: Is System ; sollth w)

respect to exten! Torge? Es! No

EXT forces acts on Rigo or wards

Wen treted as a system!

Nonewoods: WT = 16 reds = 8 reds

wf = \frac{8}{63} \, rad/s = 0.1269 \, rad/s

Before= After

LTOT = L TOX

I e wet I was I e was + I was

we=0, In=Im, 4, Ie=12SInch, w'=we=wf

O+ Ivacher = wf (125 Ivach+ Ivach)

WE = Joseph www - West 126

WF= WW 126

