P. 11. A-5.
Problem 4.5
) 1f 140,
/
Augerror Eauglio) = EID(W) + DWW
The Soft order constraint is given by
= wg <0
7-0
The Insample optimization problem is
· · · · · · · · · · · · · · · · · · ·
min Ein (w) Subject to wiw < C
The augumented error of the Soft-order Lors baint 9s given by
Lors baint 98 given by
Faug = EINLW) + LWW D
U

For the unconstrained aptimization pro.	blem
from 3 to be minimizing augumented emo	Y
the Soft order constraint (C constant fee	M
Should be Ac = -Ac. Hence WTW >, C.	
O	
Problem-4.6	
-> From example 4.2 from text book the a	19_
Eoug: (w-wein) ZTZ/w-wein)	
+ XWTW 4 9T (1-H) 4.	
N	
1691/vin, Wraj = (27.2 +15) 2 y)	
For suppose 11 wint/	
wreg / = (wreg) =)
Fairg wreg) = In (wreg) + Alluge]//
Earg (Wein) = Ein (Wein) + All Wein!	1

