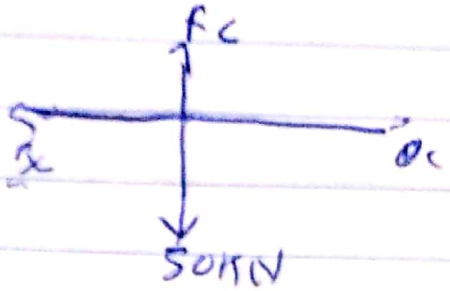
Idowu Olayonke
17/eng 03/025
Civ 304
Assignment

At joint C



From previous calculated example

BC = 50 KN

$\therefore -BC + DC = 0$ (Resolving to horizontal)

$-50 + DC = 0$

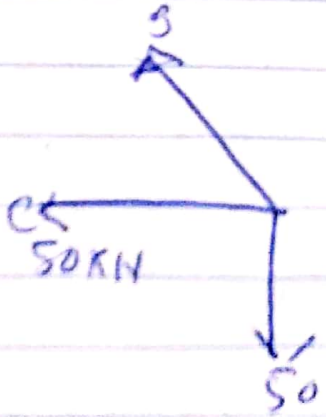
DC = 50KN (Compression)

Resolving to vertical

$-50KN + FC = 0$

FC = 50KN (Tension)

At joint D



Resolving to horizontal $= -50KN - DE\cos 45 = 0$

$50KN = -DE\cos 45$

DE = 70.7 (compression)