

@ Neglect axial effects to reduce the independent

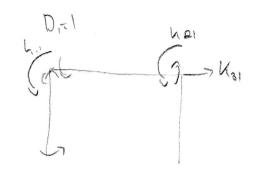
3 Eq. librar Egrs

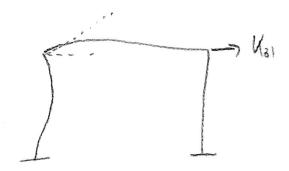
1) Fir all degrees of Aredon and determe FEMs



FEMCZION WM C Gloss not accord for monet be only found of spec loads

3 April vil obdiens/displacements of D, D2, D3 to deduce stiffness coefficients





$$K_{s1} = \frac{6E t_{AL}}{L_{bA}^2} = \frac{6(10000)}{6^3} = 1667$$

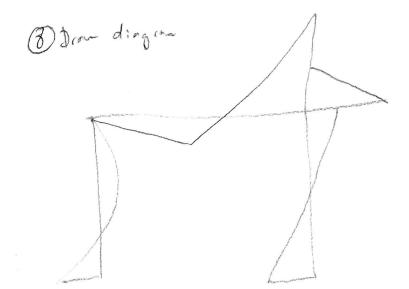
= 28333 4Nm

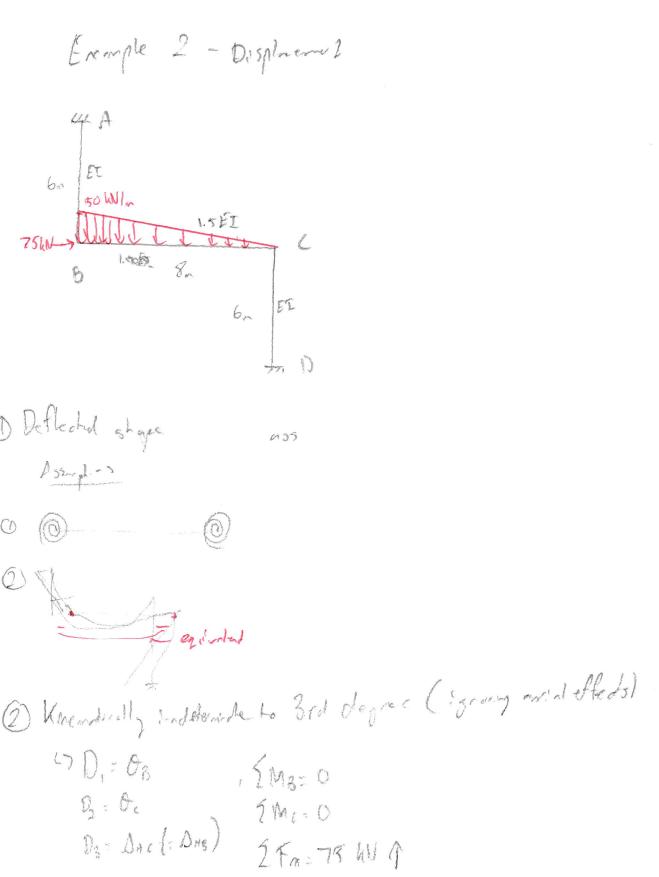
$$k_{32} = \frac{6E \pm 10}{L_{10}^2} = \frac{6(2000)}{6^2} = 33353 \text{ GeV}$$

1 U32:5 force to psid this

$$D_3 = 1$$

$$\begin{bmatrix} 21667 & 7500 & 1667 \\ 7500 & 28333 & 3333 \\ 1667 & 3333 & 1667 \end{bmatrix} \begin{pmatrix} D_1 \\ D_2 \end{pmatrix} = \begin{bmatrix} -150-(-100) \\ 0-(-75) \end{bmatrix}$$





3) Defense FEM. & FEFS

10 1 mis = 50/18 = 160

FEM: 160 Wm C7

3068 : 10174NL

FEM = -1017 LNA

@ April rations Idisplaceds of D, Do, Do do has difference off

0,:1

HERNOTHERN STORES KSI

1, = 4FIBA + 4FTAL = 4(10000) + 4(15000) - 14167 WM

War 25th . 3750 W/m

W3, = 6 EIBA = 6 C18000 = 1667 W.

0:1

W. 267 ac 45 3 5 1/32 3 1/32

V12 = 2 EIRC = 3750 WMm

122 - LECK + 43E = 141674Wn

Voz= 6 EI CD = 1667

D3=1

182 CSA GW3 7 K33
W3 465 CO LCD2

V13 = -6 EIBA - 1667 UNA

V23: 6EILO - 1667 WM

Was is force regid to produce unit displaced

V3 = 12 ET BA + 12 ET BO = 111 KIV

EM = 0 2 fx = 75

$$D_{3} = -0.00533$$

$$D_{3} = 0.002357$$

$$D_{3} = 0.05597$$

