

Remarks: See § 7.4, pages 514 to 520

Answer

a)

Member	Forces(in terms of F)	ΔL (mm)
1	$\sqrt{5}$	$\sqrt{5}$
2	1	2
3	$\sqrt{5}/2$	$\sqrt{5}$
4	$\sqrt{5}/2$	$\sqrt{5}$
5	$-\sqrt{5}/2$	$-\sqrt{5}$
6	$\sqrt{5}/2$	$\sqrt{5}$
7	-0.5	-2
8	0.5	2

d)

Joint	u_x (mm)	u_y (mm)
A	0	0
B	0	0
C	-11.5	-5.75
D	-9.5	-2.25
E	0	-14
G	-2	-3.5