

Remarks: See § 7.2, pages 488 to 504

Answer

a)

Member	Force(kN)	ΔL (mm)
1	20	2
2	0	0
3	40	2
4	$20\sqrt{5}$	$\sqrt{5}$
5	$-20\sqrt{5}$	$-\sqrt{5}$
6	$-20\sqrt{5}$	$-\sqrt{5}$
7	$20\sqrt{5}$	$-\sqrt{5}$
8	+	2
9	0	0
10	+	2
11	-	$-2\sqrt{2}$

b)

Joint	u_x (mm)	u_y (mm)
A	0	0
B	2	-13
C	2	0
D	0	0
E	-6	-6.5
G	-4	0.5

Work out:

b) Scale : 1 square= 1mm

