

[Remarks:](#) See § 7.4, pages 514 to 520

[Answer](#)

a)

Member	Sign	ΔL (mm)
1	-	-6
2	-	$-6\sqrt{2}$
3	+	6
4	-	$-6\sqrt{2}$
5	+	6
6	0	0

b)

Joint	u_x (mm)	u_y (mm)
A	0	0
B	-3	-6
C	0	-15
D	-9	-21
E	0	0

Assuming the direction of AD is fixed and removing the support at E:

Joint	u_x (mm)	u_y (mm)
A	0	0
B	12	-6
C	30	0
D	6	-6
E	30	20

Work out:

Scale: 1 square = 2mm

