Remarks: See § 7.4, pages 514 to 520

Answer

a)		
Member	Sign	$\Delta L (\mathrm{mm})$
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)
А	0	0
В	-3	-6
С	0	-15
D	-9	-21
Е	0	0

Assuming the direction of AD is fixed and removing the support

at E:	-	
Joint	u_x (mm)	u_y (mm)
А	0	0
В	12	-6
С	30	0
D	6	-6
Е	30	20

ANSWERS – VOLUME2: STRESSES, STRAINS, DISPLACEMENTS

Chapter 7, Deformation of Trusses

Work out:

Scale: 1 square = 2mm



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