## ANSWERS - VOLUME2: STRESSES, STRAINS, DISPLACEMENTS

Chapter 7, Deformation of Trusses

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Remarks: See § 7.4, pages 514 to 520

## Answer

a)

Member	Force	$\Delta L  (\text{mm})$
1	-F	-2
2	0	0
3	0	0
4	$-\sqrt{2}$ F	$-2\sqrt{2}$
5	0	0

b)

Joint	$u_x(mm)$	$u_y$ (mm)
A	0	-6
В	0	0
C	-2	-6
D	0	-6

Assuming the direction of BC is fixed and removing the support

## at A:

Joint	$u_x$ (mm)	$u_y$ (mm)
A	6	6
В	0	0
C	4	0
D	0	0

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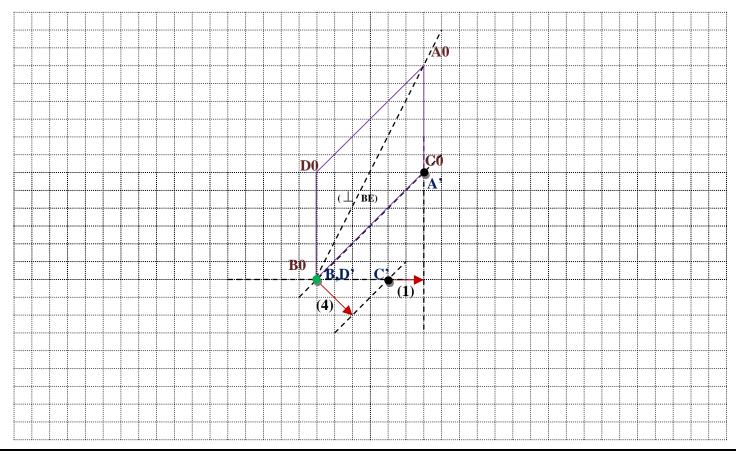
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Work out

Scale: 1 square = 1 mm



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