## ANSWERS - VOLUME2: STRESSES, STRAINS, DISPLACEMENTS

Chapter 7, Deformation of Trusses

problem 7.035, page 530

Remarks: See § 7.2, pages 488 to 504

## Answer:

a,b)

Member	Force(kN)	$\Delta L  (\text{mm})$
1	$-25\sqrt{2}$	$-\sqrt{2}$
2	25	1
3	-25	-1
4	$ \begin{array}{c c} -25 \\ 25\sqrt{2} \end{array} $	-1
5	$25\sqrt{2}$	$\sqrt{2}$
6	0	0
7	0	0
8	0	0
9	0	0

c)		
Joint	$u_{x}(mm)$	$u_y$ (mm)
A	0	0
В	-1	0
C	4	-7
D	3	-1
Е	3	0
G	3	3