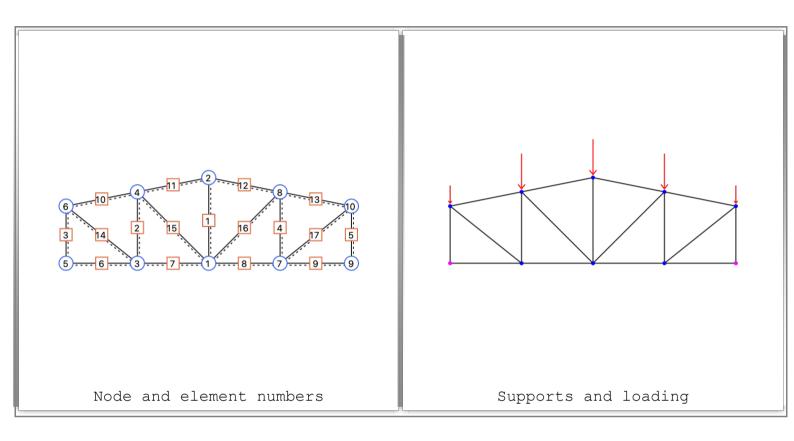
1 General Data



1.1 Nodes

	Coordir	nates [m]	Rotation [°]	[°] Support or S		Spring	
Node No.	×	z	about Y	u _x [kN/m]	u _z [kN/m]	φ _y [kNm/rad]	
1	0	0					
2	0	-3					
3	-2.5	0					
4	-2.5	-2.5					
5	-5	0		X	X		
6	-5	-2					
7	2.5	0					
8	2.5	-2.5					
9	5	0			X		
10	5	-2					

1.2 Cross Sections

Section No.	Description	A [cm ²]	I [cm ⁴]	E [N/mm ²]	ρ [kg/m ³]	α _T [1/°C]
1	Rectangular 100/100	100	833.333	11,600	7,850	1.2e-05

1.3 Members

Member No.	Turna	Nodes		Cross Section No.	Length
Member No.	Type	Start	End	Cross Section No.	L[m]
1	Truss	1	2	1	3
2	Truss	3	4	1	2.5
3	Truss	5	6	1	2
4	Truss	7	8	1	2.5
5	Truss	9	10	1	2
6	Truss	5	3	1	2.5
7	Truss	3	1	1	2.5
8	Truss	1	7	1	2.5
9	Truss	7	9	1	2.5
10	Truss	6	4	1	2.55
11	Truss	4	2	1	2.55
12	Truss	2	8	1	2.55
13	Truss	8	10	1	2.55
14	Truss	6	3	1	3.202
15	Truss	4	1	1	3.536
16	Truss	1	8	1	3.536
17	Truss	7	10	1	3.202

1.4 External Loads

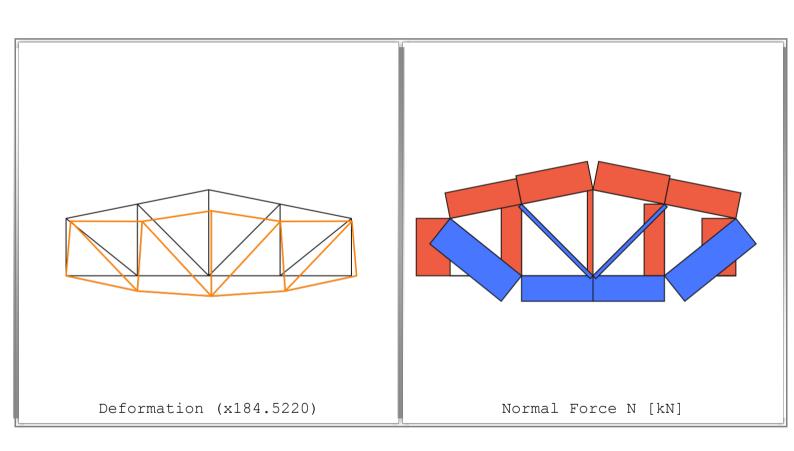
1.4.1 Forces

Favor No.	Nodo No	Force	e [kN]	Moment [kNm]
Force No.	Node No.	P _X	P_z	M _y

1	2	0	15	0
2	4	0	15	0
3	6	0	7.5	0
4	8	0	15	0
5	10	0	7.5	0

2 Results

2.1 Deformation And Section Forces



2.1.1 Section Forces

Member No.	N ₁ [kN]	N ₂ [kN]
1	-5	-5
2	-18	-18
3	-30	-30
4	-18	-18
5	-30	-30

6	-0	-0
7	22.5	22.5
8	22.5	22.5
9	-0	-0
10	-22.946	-22.946
11	-25.495	-25.495
12	-25.495	-25.495
13	-22.946	-22.946
14	28.814	28.814
15	3.536	3.536
16	3.536	3.536
17	28.814	28.814

2.1.2 Nodal Displacements

No de No	Displacements [mm]			Rotation [mrad]
Node No.	u _x	u _z	u	фу
1	0.485	-3.856	3.886	0
2	0.485	-3.985	4.015	0
3	-0	-2.887	2.887	0
4	0.914	-3.274	3.4	0
5	0	0	0	0
6	0.877	-0.517	1.018	0
7	0.97	-2.887	3.045	0
8	0.056	-3.274	3.275	0
9	0.97	0	0.97	0
10	0.093	-0.517	0.526	0

2.2 Reaction Forces

Force No.	Node No	Support Force [kN]		Moment [kNm]
Force No.	Node No.	P _X	P _z	M _y
1	5	0	30	0

2 9 -0 30 0