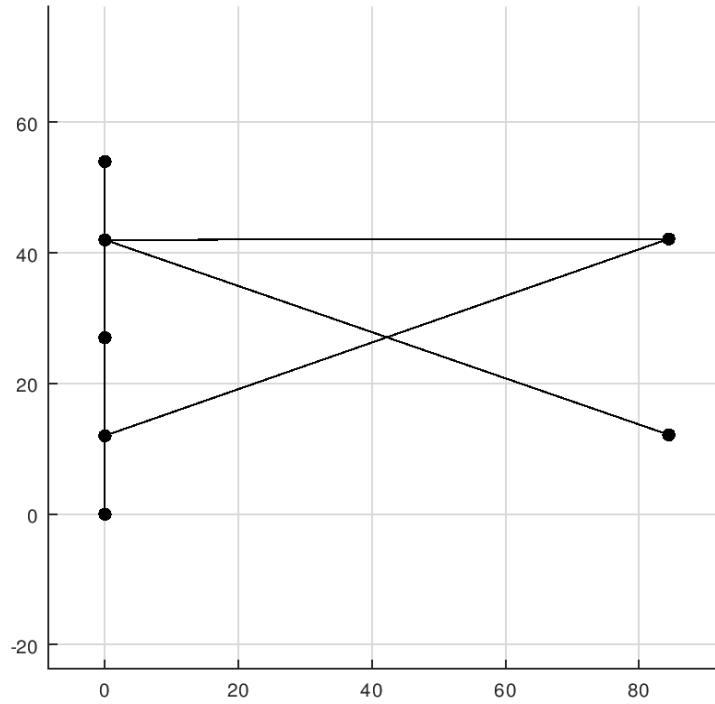


**Analysis2Horizontal**

Analysis2Horizontal



## Column1

\*\*\*\*\*

### GEOMETRY

\*\*\*\*\*

Nodal Coordinates:

(Node No. - X - Y - Z)

NODES =

1.00000	0.00000	0.00000
2.00000	0.00000	12.00000
3.00000	0.00000	27.00000
4.00000	0.00000	42.00000
5.00000	0.00000	54.00000
6.00000	84.46000	12.14660
7.00000	84.46000	42.14660

Boundary Conditions: 1 = Restrained, 0 = Free

(Node No. - Tx - Ty - Rz)

BOUNDS =

1 1 1 0

6 1 1 1

7 1 1 1

Element Information:

(Ele No. - iNode - jNode - Member Type - E - A - I)

ELES =

1 1 2 0 29000 9999 999999

2 2 3 0 29000 9999 999999

3 3 4 0 29000 9999 999999

4 4 5 0 29000 9999 999999

5 4 7 0 29000 5 50

6 4 6 0 29000 5 50

7 2 7 0 29000 5 50

Load Information:

(Node No. - Fx - Fy - Mz)

LOADS =

3 8 0 0

plotFile = ../1. OUTPUT/Analysis2Horizontal.png

ans =

-8.4460 92.9060 -23.6760 77.6760

\*\*\*\*\*

ANALYSIS				
*****				
kff =				
Columns 1 through 5:				
966657000.00000	1208332125.00000	0.00000	4833328500.00000	0.00000
1208332125.00000	304501132.39096	504.26323	434999201.34761	-103111008.00000
0.00000	504.26323	43495854.11402	1018.82405	0.00000
4833328500.00000	434999201.34761	1018.82405	17400047275.17513	773332560.00000
0.00000	-103111008.00000	0.00000	773332560.00000	206222016.00000
0.00000	0.00000	-19331400.00000	0.00000	0.00000
0.00000	-773332560.00000	0.00000	3866662800.00000	0.00000
0.00000	0.00000	0.00000	0.00000	-103111008.00000
0.00000	0.00000	0.00000	0.00000	0.00000
0.00000	0.00000	0.00000	0.00000	-773332560.00000
0.00000	0.00000	0.00000	0.00000	0.00000
0.00000	0.00000	0.00000	0.00000	0.00000
0.00000	0.00000	0.00000	0.00000	0.00000
Columns 6 through 10:				
0.00000	0.00000	0.00000	0.00000	0.00000
0.00000	-773332560.00000	0.00000	0.00000	0.00000
-19331400.00000	0.00000	0.00000	0.00000	0.00000
0.00000	3866662800.00000	0.00000	0.00000	0.00000
0.00000	0.00000	-103111008.00000	0.00000	-773332560.00000
38662800.00000	0.00000	0.00000	-19331400.00000	0.00000
0.00000	15466651200.00000	773332560.00000	0.00000	3866662800.00000
0.00000	773332560.00000	304502853.85281	-498.05544	-434999205.81648
-19331400.00000	0.00000	-498.05544	43495880.16908	2241.76973
0.00000	3866662800.00000	-434999205.81648	2241.76973	17400116017.48470
0.00000	0.00000	-201388687.50000	0.00000	1208332125.00000
0.00000	0.00000	0.00000	-24164250.00000	0.00000
0.00000	0.00000	-1208332125.00000	0.00000	4833328500.00000
Columns 11 through 13:				
0.00000	0.00000	0.00000		
0.00000	0.00000	0.00000		
0.00000	0.00000	0.00000		
0.00000	0.00000	0.00000		
0.00000	0.00000	0.00000		
0.00000	0.00000	0.00000		
0.00000	0.00000	0.00000		
-201388687.50000	0.00000	-1208332125.00000		

0.00000	-24164250.00000	0.00000
1208332125.00000	0.00000	4833328500.00000
201388687.50000	0.00000	1208332125.00000
0.00000	24164250.00000	0.00000
1208332125.00000	0.00000	9666657000.00000
Number of dof: 13		
Number of loads: 1		
LOADS =		
3 8 0 0		
deg = 5		
deg = 6		
deg = 7		
P =		
0		
0		
0		
0		
8		
0		
0		
0		
0		
0		
0		
0		
0		
uf =		
-0.000036296455		
0.000435532007		
0.000000027203		
-0.000036290093		
0.000979711731		
0.000000070654		
-0.000036263064		
0.001523454910		
0.000000114106		
-0.000036242231		
0.001958361685		
0.000000114106		
-0.000036242231		

\*\*\*\*\*

## Post Process

\*\*\*\*\*

### Nodal Displacements:

(Node No. - Tx - Ty - Rz)

NodalDisp =

1.00000	0.00000	0.00000	-0.00004
2.00000	0.00044	0.00000	-0.00004
3.00000	0.00098	0.00000	-0.00004
4.00000	0.00152	0.00000	-0.00004
5.00000	0.00196	0.00000	-0.00004
6.00000	0.00000	0.00000	0.00000
7.00000	0.00000	0.00000	0.00000

### Global Member Forces:

(Element No. - iFx - iFy - iMz - jFx - jFy - jMz)

GlobalForces =

1.0000e+00	-2.5624e+00	-6.5733e-01	-8.7311e-11	2.5624e+00	6.5733e-01	3.0749e+01
2.0000e+00	-3.2015e+00	-8.3999e-01	-2.8244e+01	3.2015e+00	8.3999e-01	7.6266e+01
3.0000e+00	4.7985e+00	-8.3999e-01	-7.6266e+01	-4.7985e+00	8.3999e-01	4.2879e+00
4.0000e+00	-1.1642e-10	8.8818e-16	9.3132e-10	1.1642e-10	-8.8818e-16	4.6566e-10
5.0000e+00	2.6155e+00	-3.9734e-02	-2.4919e+00	-2.6155e+00	3.9734e-02	-1.2475e+00
6.0000e+00	2.1830e+00	-8.0025e-01	-1.7960e+00	-2.1830e+00	8.0025e-01	-6.2273e-01
7.0000e+00	6.3902e-01	1.8266e-01	-2.5054e+00	-6.3902e-01	-1.8266e-01	-1.3319e+00

### Local Member Forces:

(Element No. - iFx - iFy - iMz - jFx - jFy - jMz)

LocalForces =

1.0000e+00	-6.5733e-01	2.5624e+00	-8.7311e-11	6.5733e-01	-2.5624e+00	3.0749e+01
2.0000e+00	-8.3999e-01	3.2015e+00	-2.8244e+01	8.3999e-01	-3.2015e+00	7.6266e+01
3.0000e+00	-8.3999e-01	-4.7985e+00	-7.6266e+01	8.3999e-01	4.7985e+00	4.2879e+00
4.0000e+00	8.8818e-16	1.1642e-10	9.3132e-10	-8.8818e-16	-1.1642e-10	4.6566e-10

5.0000e+00	2.6154e+00	-4.4274e-02	-2.4919e+00	-2.6154e+00	4.4274e-02	-1.2475e+00
6.0000e+00	2.3249e+00	-2.7001e-02	-1.7960e+00	-2.3249e+00	2.7001e-02	-6.2273e-01
7.0000e+00	6.6324e-01	-4.2789e-02	-2.5054e+00	-6.6324e-01	4.2789e-02	-1.3319e+00
-----						
-----						
Nodal Support Reactions:						
(Node No. - Fx - Fy - Mz)						
-----						
Support =						
1.00000	-2.56244	-0.65733	0.00000			
2.00000	0.00000	0.00000	0.00000			
3.00000	0.00000	0.00000	0.00000			
4.00000	0.00000	0.00000	0.00000			
5.00000	0.00000	0.00000	0.00000			
6.00000	-2.18302	0.80025	-0.62273			
7.00000	-3.25454	-0.14292	-2.57938			
sumFx = -8.0000						
sumFy = 0						
sumMz = -3.2021						
-----						