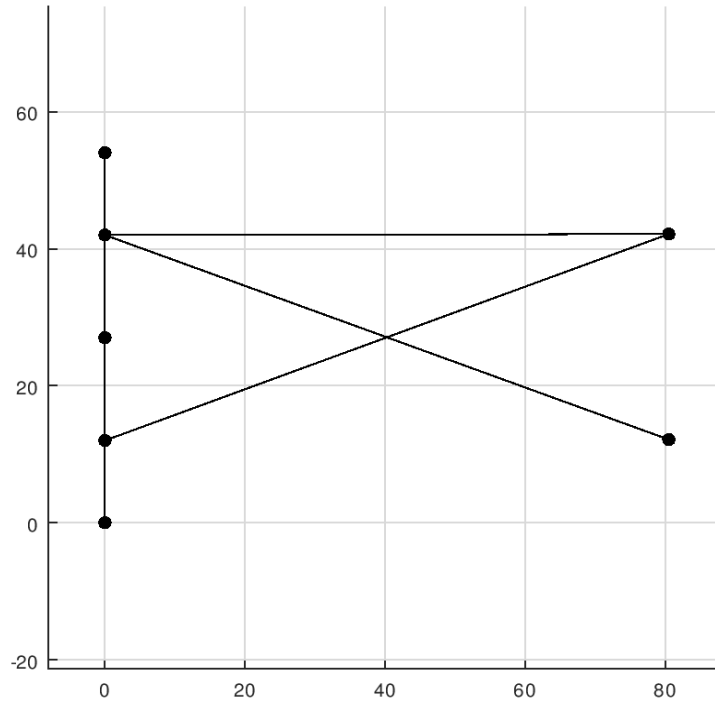


**Analysis1Horizontal**

Analysis1Horizontal



# 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	80.50000	12.14000
7.00000	80.50000	42.14000

-----  
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/Analysis1Horizontal.png

ans =

-8.0500 88.5500 -21.3000 75.3000

\*\*\*\*\*

## ANALYSIS

\*\*\*\*\*

kff =

Columns 1 through 5:

966657000.00000	1208332125.00000	0.00000	4833328500.00000	0.00000
1208332125.00000	304501178.35278	544.93718	434999152.13019	-103111008.00000
0.00000	544.93718	43495881.42670	1102.72130	0.00000
4833328500.00000	434999152.13019	1102.72130	17400050075.30717	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	304502984.60387	-538.62633	-434999156.90154
-19331400.00000	0.00000	-538.62633	43495911.78478	2449.02769
0.00000	3866662800.00000	-434999156.90154	2449.02769	17400122201.72976
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 =		
-0.000034872557		
0.000418445211		
0.000000028307		
-0.000034866188		
0.000941266341		
0.000000073498		
-0.000034839158		
0.001463650968		
0.000000118688		
-0.000034818333		
0.001881470958		
0.000000118688		
-0.000034818333		

\*\*\*\*\*

## Post Process

\*\*\*\*\*

-----

### Nodal Displacements:

(Node No. - Tx - Ty - Rz)

-----

#### NodalDisp =

1.00000	0.00000	0.00000	-0.00003
2.00000	0.00042	0.00000	-0.00003
3.00000	0.00094	0.00000	-0.00003
4.00000	0.00146	0.00000	-0.00003
5.00000	0.00188	0.00000	-0.00003
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	-2.5653e+00	-6.8402e-01	-3.4925e-10	2.5653e+00	6.8402e-01	3.0783e+01
2.0000e+00	-3.2002e+00	-8.7360e-01	-2.8258e+01	3.2002e+00	8.7360e-01	7.6260e+01
3.0000e+00	4.7998e+00	-8.7360e-01	-7.6260e+01	-4.7998e+00	8.7360e-01	4.2631e+00
4.0000e+00	-4.3656e-11	-8.8818e-16	4.0745e-10	4.3656e-11	8.8818e-16	-1.1642e-10
5.0000e+00	2.6365e+00	-4.2241e-02	-2.5119e+00	-2.6365e+00	4.2241e-02	-1.2576e+00
6.0000e+00	2.1634e+00	-8.3136e-01	-1.7512e+00	-2.1634e+00	8.3136e-01	-5.7516e-01
7.0000e+00	6.3490e-01	1.8959e-01	-2.5253e+00	-6.3490e-01	-1.8959e-01	-1.3490e+00

-----

-----

### Local Member Forces:

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

-----

#### LocalForces =

1.0000e+00	-6.8402e-01	2.5653e+00	-3.4925e-10	6.8402e-01	-2.5653e+00	3.0783e+01
2.0000e+00	-8.7360e-01	3.2002e+00	-2.8258e+01	8.7360e-01	-3.2002e+00	7.6260e+01
3.0000e+00	-8.7360e-01	-4.7998e+00	-7.6260e+01	8.7360e-01	4.7998e+00	4.2631e+00
4.0000e+00	-8.8818e-16	4.3656e-11	4.0745e-10	8.8818e-16	-4.3656e-11	-1.1642e-10

5.0000e+00	2.6364e+00	-4.6826e-02	-2.5119e+00	-2.6364e+00	4.6826e-02	-1.2576e+00
6.0000e+00	2.3175e+00	-2.7095e-02	-1.7512e+00	-2.3175e+00	2.7095e-02	-5.7516e-01
7.0000e+00	6.6107e-01	-4.5073e-02	-2.5253e+00	-6.6107e-01	4.5073e-02	-1.3490e+00
-----						
-----						
Nodal Support Reactions:						
(Node No. - Fx - Fy - Mz)						
-----						
Support =						
1.00000	-2.56527	-0.68402	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	-2.16337	0.83136	-0.57516			
7.00000	-3.27136	-0.14734	-2.60662			
sumFx = -8.0000						
sumFy = 8.6042e-16						
sumMz = -3.1818						
-----						