



## Column1

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### GEOMETRY

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-----  
Nodal Coordinates:

(Node No. - X - Y - Z)

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NODES =

1.00000	0.00000	0.00000
2.00000	0.00000	27.00000
3.00000	0.00000	39.00000
4.00000	0.00000	66.00000
5.00000	0.00000	78.00000
6.00000	86.50000	27.00000
7.00000	86.50000	66.00000

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(Node No. - Tx - Ty - Rz)

1 0 1 0

6 1 1 1

7 1 1 1

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

1.00000	1.00000	2.00000	0.00000	29000.00000	9999.00000	999999.00000
2.00000	2.00000	3.00000	0.00000	29000.00000	9999.00000	999999.00000
3.00000	3.00000	4.00000	0.00000	29000.00000	9999.00000	999999.00000
4.00000	4.00000	5.00000	0.00000	29000.00000	9999.00000	999999.00000
5.00000	4.00000	7.00000	0.00000	29000.00000	10.00000	14.25000
6.00000	4.00000	6.00000	0.00000	29000.00000	10.00000	14.25000
7.00000	2.00000	7.00000	0.00000	29000.00000	10.00000	14.25000

(Node No. - Fx - Fy - Mz)

5.00000	0.00000	0.00000	1382.04000
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ans =

-8.6500 95.1500 -12.9000 90.9000

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ANALYSIS				
*****				
kff =				
Columns 1 through 5:				
17680213.99177	-238682888.88889	-17680213.99177	0.00000	-238682888.88889
-238682888.88889	4296292000.00000	238682888.88889	0.00000	2148146000.00000
-17680213.99177	238682888.88889	219071442.45801	1143.02072	-969649349.30677
0.00000	0.00000	1143.02072	34904437.82195	251.06216
-238682888.88889	2148146000.00000	-969649349.30677	251.06216	13962966421.00473
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
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	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	0.00000	0.00000	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	0.00000	0.00000
219068901.49177	0.00000	969649236.11111	-17680213.99177	0.00000
0.00000	34903916.66667	0.00000	0.00000	-10739666.66667
969649236.11111	0.00000	13962949000.00000	238682888.88889	0.00000
-17680213.99177	0.00000	238682888.88889	219074795.05916	-1143.02072
0.00000	-10739666.66667	0.00000	-1143.02072	34904445.48402
-238682888.88889	0.00000	2148146000.00000	-969649122.91546	582.44643
0.00000	0.00000	0.00000	-201388687.50000	0.00000
0.00000	0.00000	0.00000	0.00000	-24164250.00000
0.00000	0.00000	0.00000	-1208332125.00000	0.00000
Columns 11 through 14:				
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	
-238682888.88889	0.00000	0.00000	0.00000	

0.00000	0.00000	0.00000	0.00000
2148146000.00000	0.00000	0.00000	0.00000
-969649122.91546	-201388687.50000	0.00000	-1208332125.00000
582.44643	0.00000	-24164250.00000	0.00000
13962985530.83132	1208332125.00000	0.00000	4833328500.00000
1208332125.00000	201388687.50000	0.00000	1208332125.00000
0.00000	0.00000	24164250.00000	0.00000
4833328500.00000	1208332125.00000	0.00000	9666657000.00000
Number of dof: 14			
Number of loads: 1			
LOADS =			
5.00000 0.00000 0.00000 1382.04000			
deg = 12			
deg = 13			
deg = 14			
P =			
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			
1382.04000			
uf =			
0.0273011105			
0.0005030848			
0.0137178222			
-0.0000021283			
0.0005030848			
0.0076804417			
-0.0000024202			
0.0005031741			
-0.0059145352			
-0.0000030768			

0.0005040070
-0.0119660502
-0.0000030768
0.0005045789
*****
Post Process
*****
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Nodal Displacements:
(Node No. - Tx - Ty - Rz)
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NodalDisp =
1.00000 0.02730 0.00000 0.00050
2.00000 0.01372 -0.00000 0.00050
3.00000 0.00768 -0.00000 0.00050
4.00000 -0.00591 -0.00000 0.00050
5.00000 -0.01197 -0.00000 0.00050
6.00000 0.00000 0.00000 0.00000
7.00000 0.00000 0.00000 0.00000
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Global Member Forces:
(Element No. - iFx - iFy - iMz - jFx - jFy - jMz)
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GlobalForces =
1.0000e+00 -2.9104e-11 2.2857e+01 2.0955e-09 2.9104e-11 -2.2857e+01 -9.3132e-10
2.0000e+00 -3.4797e+01 7.0524e+00 -7.2109e+00 3.4797e+01 -7.0524e+00 4.2478e+02
3.0000e+00 -3.4797e+01 7.0524e+00 -4.2478e+02 3.4797e+01 -7.0524e+00 1.3643e+03
4.0000e+00 2.3283e-10 -2.8422e-14 -1.3820e+03 -2.3283e-10 2.8422e-14 1.3820e+03
5.0000e+00 -1.9829e+01 1.6700e-01 9.6305e+00 1.9829e+01 -1.6700e-01 4.8147e+00
6.0000e+00 -1.4968e+01 6.8854e+00 8.1100e+00 1.4968e+01 -6.8854e+00 3.7199e+00
7.0000e+00 3.4797e+01 1.5805e+01 7.2109e+00 -3.4797e+01 -1.5805e+01 2.8288e+00
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Local Member Forces:
(Element No. - iFx - iFy - iMz - jFx - jFy - jMz)
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LocalForces =

1.0000e+00	2.2857e+01	2.9104e-11	2.0955e-09	-2.2857e+01	-2.9104e-11	-9.3132e-10
2.0000e+00	7.0524e+00	3.4797e+01	-7.2109e+00	-7.0524e+00	-3.4797e+01	4.2478e+02
3.0000e+00	7.0524e+00	3.4797e+01	-4.2478e+02	-7.0524e+00	-3.4797e+01	1.3643e+03
4.0000e+00	-2.8422e-14	-2.3283e-10	-1.3820e+03	2.8422e-14	2.3283e-10	1.3820e+03
5.0000e+00	-1.9829e+01	1.6700e-01	9.6305e+00	1.9829e+01	-1.6700e-01	4.8147e+00
6.0000e+00	-1.6475e+01	1.2468e-01	8.1100e+00	1.6475e+01	-1.2468e-01	3.7199e+00
7.0000e+00	3.8218e+01	1.0581e-01	7.2109e+00	-3.8218e+01	-1.0581e-01	2.8288e+00
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Nodal Support Reactions:						
(Node No. - Fx - Fy - Mz)						
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Support =						
1.00000	0.00000	22.85732	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	14.96807	-6.88537	3.71988			
7.00000	-14.96807	-15.97195	7.64351			
sumFx = 0.00000000046135						
sumFy = -4.9738e-14						
sumMz = 11.363						
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