



## 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	12.00000
3.00000	0.00000	27.00000
4.00000	0.00000	42.00000
5.00000	0.00000	54.00000
6.00000	84.46000	19.68920
7.00000	84.46000	43.68920

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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	2.00000	2.85000
6.00000	4.00000	6.00000	0.00000	29000.00000	2.00000	2.85000
7.00000	2.00000	7.00000	0.00000	29000.00000	2.00000	2.85000

(Node No. -  $F_x$  -  $F_y$  -  $M_z$ )

5 0 0 720

ans =

-8.4460 92.9060 -23.6760 77.6760

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ANALYSIS				
*****				
kff =				
Columns 1 through 5:				
201388687.50000	-1208332125.00000	-201388687.50000	0.00000	-1208332125.00000
-1208332125.00000	9666657000.00000	1208332125.00000	0.00000	4833328500.00000
-201388687.50000	1208332125.00000	304500259.27566	211.02044	434999543.59313
0.00000	0.00000	211.02044	43495730.52544	57.05490
-1208332125.00000	4833328500.00000	434999543.59313	57.05490	17399986264.81530
0.00000	0.00000	-103111008.00000	0.00000	773332560.00000
0.00000	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
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
-103111008.00000	0.00000	-773332560.00000	0.00000	0.00000
0.00000	-19331400.00000	0.00000	0.00000	0.00000
773332560.00000	0.00000	3866662800.00000	0.00000	0.00000
206222016.00000	0.00000	0.00000	-103111008.00000	0.00000
0.00000	38662800.00000	0.00000	0.00000	-19331400.00000
0.00000	0.00000	15466651200.00000	773332560.00000	0.00000
-103111008.00000	0.00000	773332560.00000	304501002.53537	-149.88497
0.00000	-19331400.00000	0.00000	-149.88497	43495696.61729
-773332560.00000	0.00000	3866662800.00000	-434999549.79308	132.30307
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	
-773332560.00000	0.00000	0.00000	0.00000	

0.00000	0.00000	0.00000	0.00000
3866662800.00000	0.00000	0.00000	0.00000
-434999549.79308	-201388687.50000	0.00000	-1208332125.00000
132.30307	0.00000	-24164250.00000	0.00000
17399990297.96250	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 0 0 720			
deg = 12			
deg = 13			
deg = 14			
P =			
0			
0			
0			
0			
0			
0			
0			
0			
0			
0			
0			
0			
0			
720			
uf =			
0.06507764573			
0.00197420273			
0.04138721302			
-0.00000048757			
0.00197420273			
0.01177369573			
-0.00000063942			
0.00197429636			
-0.01784258137			
-0.00000079127			

0.00197457070
-0.04153921739
-0.00000079127
0.00197486863
*****
Post Process
*****
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Nodal Displacements:
(Node No. - Tx - Ty - Rz)
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NodalDisp =
1.00000 0.06508 0.00000 0.00197
2.00000 0.04139 -0.00000 0.00197
3.00000 0.01177 -0.00000 0.00197
4.00000 -0.01784 -0.00000 0.00197
5.00000 -0.04154 -0.00000 0.00197
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)
-----
GlobalForces =
1.0000e+00 -5.5879e-09 1.1782e+01 1.8626e-08 5.5879e-09 -1.1782e+01 5.2154e-08
2.0000e+00 -2.3291e+01 2.9355e+00 -6.3491e+00 2.3291e+01 -2.9355e+00 3.5571e+02
3.0000e+00 -2.3291e+01 2.9355e+00 -3.5571e+02 2.3291e+01 -2.9355e+00 7.0507e+02
4.0000e+00 -2.3283e-09 -7.1054e-15 -7.2000e+02 2.3283e-09 7.1054e-15 7.2000e+02
5.0000e+00 -1.2248e+01 -1.0714e-01 7.7522e+00 1.2248e+01 1.0714e-01 3.8885e+00
6.0000e+00 -1.1043e+01 3.0427e+00 7.1765e+00 1.1043e+01 -3.0427e+00 3.4402e+00
7.0000e+00 2.3291e+01 8.8461e+00 6.3491e+00 -2.3291e+01 -8.8461e+00 2.7315e+00
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Local Member Forces:
(Element No. - iFx - iFy - iMz - jFx - jFy - jMz)
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LocalForces =

1.0000e+00	1.1782e+01	5.5879e-09	1.8626e-08	-1.1782e+01	-5.5879e-09	5.2154e-08
2.0000e+00	2.9355e+00	2.3291e+01	-6.3491e+00	-2.9355e+00	-2.3291e+01	3.5571e+02
3.0000e+00	2.9355e+00	2.3291e+01	-3.5571e+02	-2.9355e+00	-2.3291e+01	7.0507e+02
4.0000e+00	-7.1054e-15	2.3283e-09	-7.2000e+02	7.1054e-15	-2.3283e-09	7.2000e+02
5.0000e+00	-1.2248e+01	1.3780e-01	7.7522e+00	1.2248e+01	-1.3780e-01	3.8885e+00
6.0000e+00	-1.1453e+01	1.2153e-01	7.1765e+00	1.1453e+01	-1.2153e-01	3.4402e+00
7.0000e+00	2.4914e+01	1.0066e-01	6.3491e+00	-2.4914e+01	-1.0066e-01	2.7315e+00
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Nodal Support Reactions:						
(Node No. - Fx - Fy - Mz)						
-----						
Support =						
1.00000	0.00000	11.78169	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	11.04254	-3.04268	3.44018			
7.00000	-11.04254	-8.73901	6.62002			
sumFx = 0.0000000012875						
sumFy = -1.7764e-15						
sumMz = 10.060						
-----						