```
Numerical Outputs for HW7 Problem 1
```

Maximum bending stress = 4520.7713 psi

```
Displacements, Angles of Rotation =
[-0.0, 0.0, -0.001667, -0.00125, 0.000833, 0.0, 0.000833]
m, rad
Forces, Moments =
[25000.0, 50000.0, -25000.0, 0.0, 0.0, 0.0, 0.0, 0.0]
N, N*m
Maximum transverse shear stress = 765465.5446 Pa
Maximum bending stress = 27667047.9925 Pa
Numerical Outputs for HW7 Problem 2
Displacements, Angles of Rotation =
[-0.0, 0.0, -0.0, -0.0001, -0.000167, -0.000201, 0.000212, 0.0, 0.0]
m, rad
Forces, Moments =
[-6026.7857, -4017.8571, 6026.7857, -8035.7143, 8035.7143, 8035.7143, -8035.7143,
-0.0, 8035.7143, -0.0, 66964.2857, -29464.2857]
N, N*m
Maximum transverse shear stress = 2050354.1374 Pa
Maximum bending stress = 16303796.1384 Pa
Numerical Outputs for HW7 Problem 3
Displacements, Angles of Rotation =
[0.0, -0.0036, 0.0, 0.0018, -0.0288, -0.0018, -0.0003, -0.0288, 0.0006, 0.0, 0.0015]
in, rad
Forces, Moments =
[250.0, -0.0, 350.0, -3600.0, 75.0, 3600.0, -75.0, -0.0, 75.0, -0.0, -75.0, 1800.0,
-75.0, -1800.0, 75.0, -0.0]
lb, lb*in
Maximum transverse shear stress = 147.1827 psi
```

## Numerical Outputs for HW7 Problem 306

Displacements, Angles of Rotation = [0.0, -0.0036, -0.047278, -0.002693, -0.072161, -0.000662, -0.06594, 0.001454, -0.034836, 0.002621, 0.0, 0.0018, -0.0288, -0.0018, -0.0003, -0.0288, 0.0006, 0.0, 0.0015] in, rad

Forces, Moments = [250.0, 0.0, -130.0, 2736.0, 130.0, -2736.0, -10.0, 3744.0, 10.0, -3744.0, 110.0, 3024.0, -110.0, -3024.0, 230.0, 576.0, -230.0, -576.0, 350.0, -3600.0, 75.0, 3600.0, -75.0, -0.0, 75.0, 0.0, -75.0, 1800.0, -75.0, -1800.0, 75.0, 0.0] lb, lb\*in

Maximum transverse shear stress = 147.1827 psi

Maximum bending stress = 4701.6022 psi