PROBLEM 7.3

Determine the internal forces at Point J when $\alpha = 90^\circ$.

PROBLEM 7.8

Two members, each consisting of a straight and a quarter-circular portion of rod, are connected as shown and support a 75-lb load at A. Determine the internal forces at Point K.

PROBLEM 7.11

A semicircular rod is loaded as shown. Determine the internal forces at Point J knowing that $\theta = 30^\circ$.

PROBLEM 7.33

For the beam and loading shown, (a) draw the shear and bending-moment diagrams, (b) determine the maximum absolute values of the shear and bending moment.

PROBLEM 7.39

For the beam and loading shown, (a) draw the shear and bending-moment diagrams, (b) determine the maximum absolute values of the shear and bending moment.