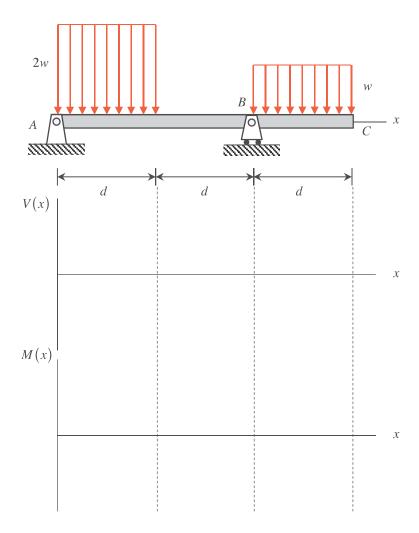
## Homework H36.A

*Given*: Consider the beam loaded as shown below. The beam has a tubular cross section with inner and outer radii of R/2 and R, respectively.

*Find*: For this problem:

- a) Determine the location(s) for which pure bending exists on the cross section of the beam.
- b) For the location(s) found in a) above, determine the maximum normal stress. For this problem, use the following parameters: d = 3 ft, w = 15 kips/ft and R = 4 in.



## Homework H36.B

**Given**: Consider the beam loaded as shown below. The beam has a rectangular cross section with cross-section dimensions of  $b \times h$ , where b is the dimension into the page.

## *Find*: For this problem:

- a) Determine the location(s) for which pure bending exists on the cross section of the beam.
- b) For the location(s) found in a) above, determine the maximum normal stress. For this problem, use the following parameters: L = 5 m, w = 20 kN/m, b = 0.1 m and h = 0.3 m.

