

Homework H35.B

Given: Consider the beam loaded as shown below. The beam has a solid square cross section with cross-section dimensions $b \times b$.

Find: For this problem:

- Determine the location(s) for which pure bending exists on the cross section of the beam.
- For the location(s) found in a) above, determine the maximum normal stress.

For this problem, use the following parameters: $d = 2$ m, $w = 10$ kN/m and $b = 100$ mm.

