

Homework H36.A

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:

- 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: $d = 6$ ft, $w = 4$ kips/ft, $b = 2$ ft and $h = 4$ ft.

