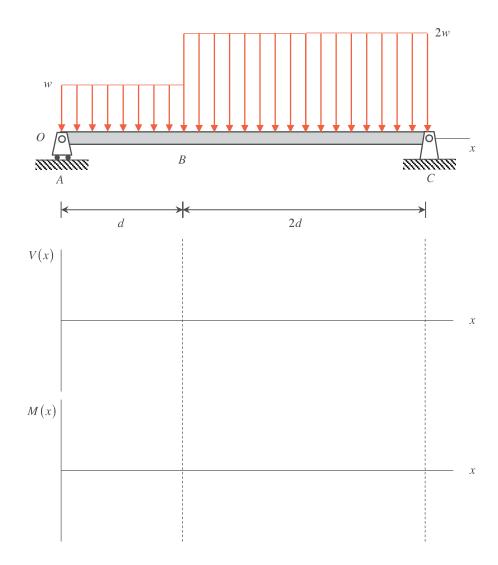
Homework H36.A

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:

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



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: d = 1 m, P = 10 kN, w = 30 kN/m, b = 0.3 m and h = 0.3 m.

