

1 - Solve **Example 8.3** (page 415 in the textbook), but change the location of point A to be at 1.5 m from the top (instead of 1 m).

2 - For the given beam , determine the normal stress and shear stress at point A. Also , determine the normal stress and shear stress at point B.



3- The given solid block is subjected to the shown forces. Determine the normal stress at point A, and at point B. Show the final answers on small differential elements.



4 - Solve problem 8.63 in the textbook, but change the weight of the sign to 10 kN (instead of 7.5) and change the wind pressure to $6 kN/m^2$ (instead of 8).

5 - The given rod has a diameter of 80 mm. Determine the state of stress at **point A** and show the results on a differential element at that point. Repeat the same but for **point C** (which is the center of the cross section).

