Homework Problem H30.A

- *Given*: Consider the frame shown below made up of a rigid bar AB and a circular crosssection rod BC, where the rod has a diameter of d and is made up of a material having a Young's modulus E.
- *Find*: For this problem:
 - a) Determine the load carried by rod BC.
 - b) Determine the axial stress and strain in rod BC.

For this problem, use the following parameters: b = 2 ft, d = 2 in, P = 3 kips and E = 30 x 10^6 psi.

