

**PROBLEM 2: STATICS: BEAMS AND JOINTS**

Name: \_\_\_\_\_ The Date: \_\_\_\_\_

Draw: \_\_\_\_\_

When solving problems about beams, you should always be careful whether the left and right sides of the beam. You will have two equations to remember to draw your beam:  $\sum F_x = 0$  and  $\sum F_y = 0$ .

**Beams in Equilibrium**

- 1. A beam is supported at the left end by a hinge and at the right end by a roller. The beam is in equilibrium.
  - (a) Draw a free-body diagram of the beam. (Label all forces and distances.)
  - (b) Write the equations for equilibrium. (Label all forces and distances.)
  - (c) Solve for the reaction forces at the left and right ends of the beam.
- 2. A beam is supported at the left end by a hinge and at the right end by a roller. The beam is in equilibrium.
  - (a) Draw a free-body diagram of the beam. (Label all forces and distances.)
  - (b) Write the equations for equilibrium. (Label all forces and distances.)
  - (c) Solve for the reaction forces at the left and right ends of the beam.
- 3. A beam is supported at the left end by a hinge and at the right end by a roller. The beam is in equilibrium.
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**Benjamin B. Wolman**



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**PsychSim 5** Thomas E. Ludwig, 2004 *Psychology with Updates on DSM-5* Don H. Hockenbury, Sandra E. Hockenbury, 2014-02-21 Edition after edition Hockenbury and

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