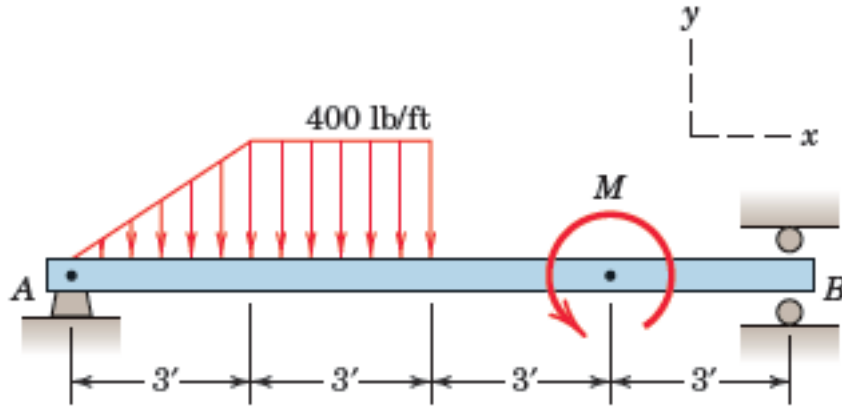


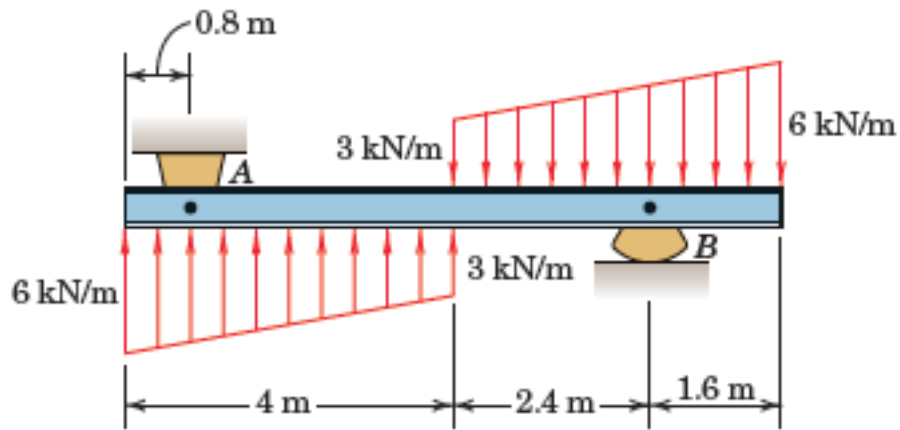
1. Chapter 5, Practice Problem 5/16

The beam is subjected to the distributed load and the couple shown. If M is slowly increased starting from zero, at what value M_0 will contact at B change from the lower surface to the upper surface?



2. Chapter 5, Practice Problem 5/17

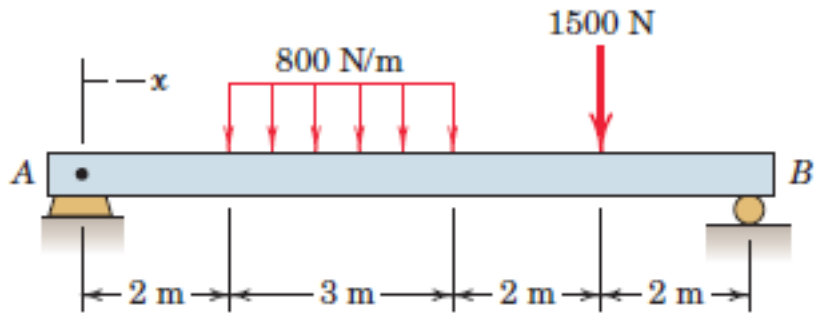
Calculate the support reactions at A and B for the beam subjected to the two linearly distributed loads.



3. Chapter 5, Problem 5/149

What are the values of the shear force and bending moment at $x = 6$ m?

Extra: Determine the maximum bending moment M_{\max} .



4. Chapter 5, Supplemental Problem 5/088

Determine the shear (V) and moment (M) at a section 3 m to the left of the support at A .

Note: Although the structure is indeterminate, no forces act horizontally (not required for equilibrium).

