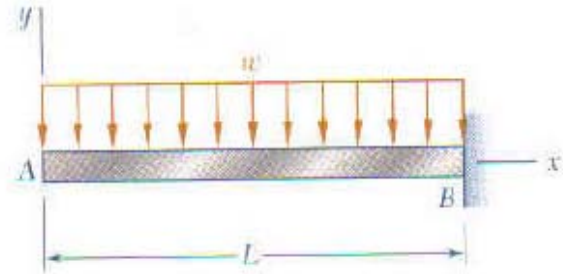
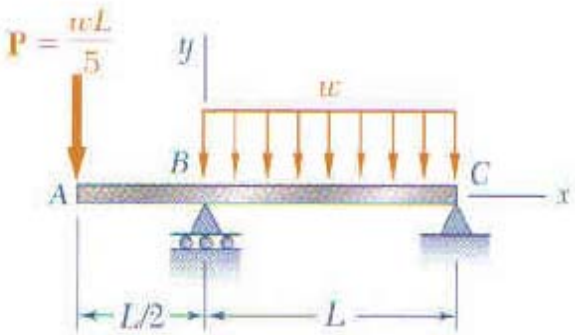
9. 3

9.1 through 9.4 For the loading shown, determine (*a*) the equation of the elastic curve for the cantilever beam *AB*, (*b*) the deflection at the free end, (*c*) the slope at the free end.



9. 7

9.8 For the beam and loading shown, determine (*a*) the equation of the elastic curve for portion *BC* of the beam, (*b*) the deflection at midspan, (*c*) the slope at *B*.



9. 22

9.19 through 9.22 For the beam and loading shown, determine the reaction at the roller support.

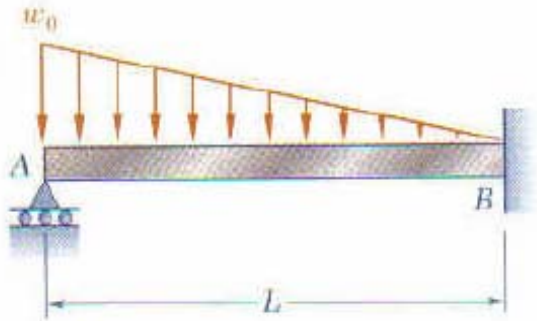
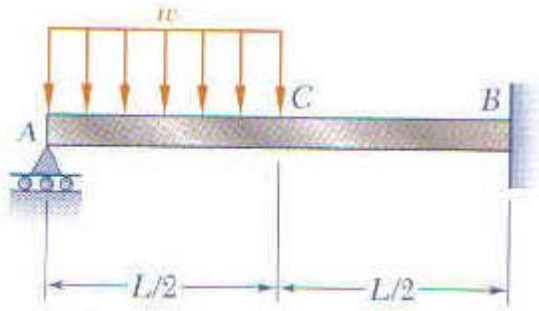


Fig. P9.21

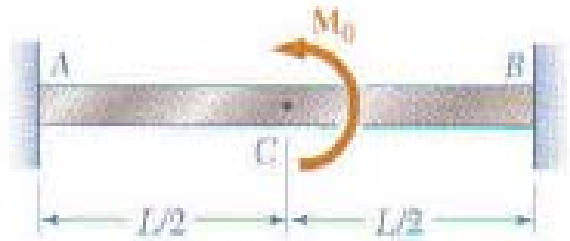
9. 26

9.25 through 9.28 Determine the reaction at the roller support and draw the bending moment diagram for the beam and loading shown.



9. 83

9.83 and 9.84 For the beam shown, determine the reaction at B.



9. 92

9.89 The cantilever beam BC is attached to the steel cable AB as shown. Knowing that the cable is initially taught, determine the tension in the cable caused by the distributed load shown. Use $E = 200$ GPa.