

ENGR 8 Assignment 10
Ch6 - F13,F14,F15,F16,F18,69,73,75,87,106

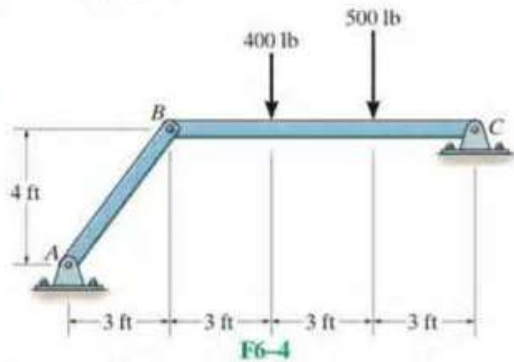
In-Class Problems

F6-13. Determine the force P needed to hold the 60-lb weight in equilibrium.



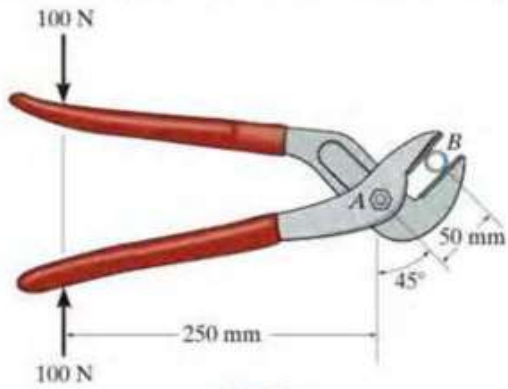
$P = 20 \text{ lb}$

F6-14. Determine the horizontal and vertical components of reaction at pin C .



$C_x = 325, C_y = 467$

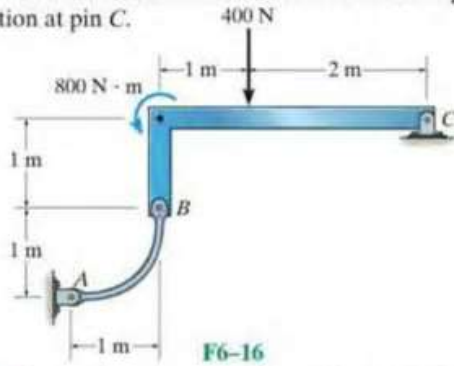
F6-15. If a 100-N force is applied to the handles of the pliers, determine the clamping force exerted on the smooth pipe *B* and the magnitude of the resultant force at pin *A*.



F6-15

$N_b = 500, F_a = 575$

F6-16. Determine the horizontal and vertical components of reaction at pin *C*.



F6-16

$C_x = 800, C_y = 400 \text{ N}$