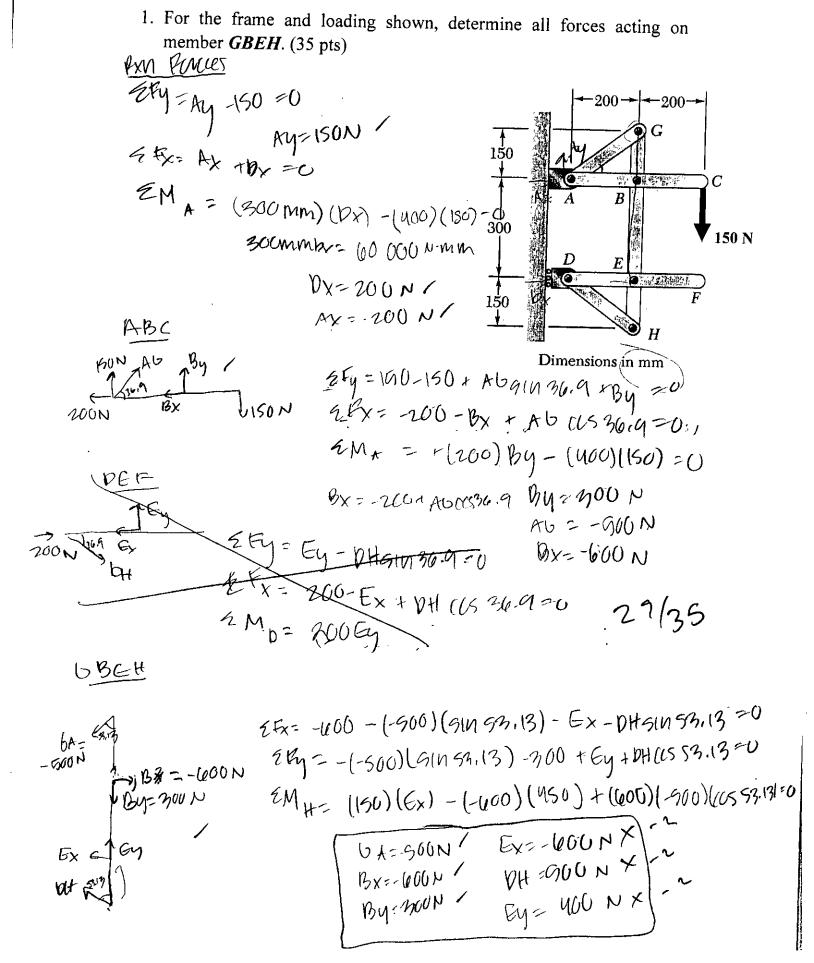
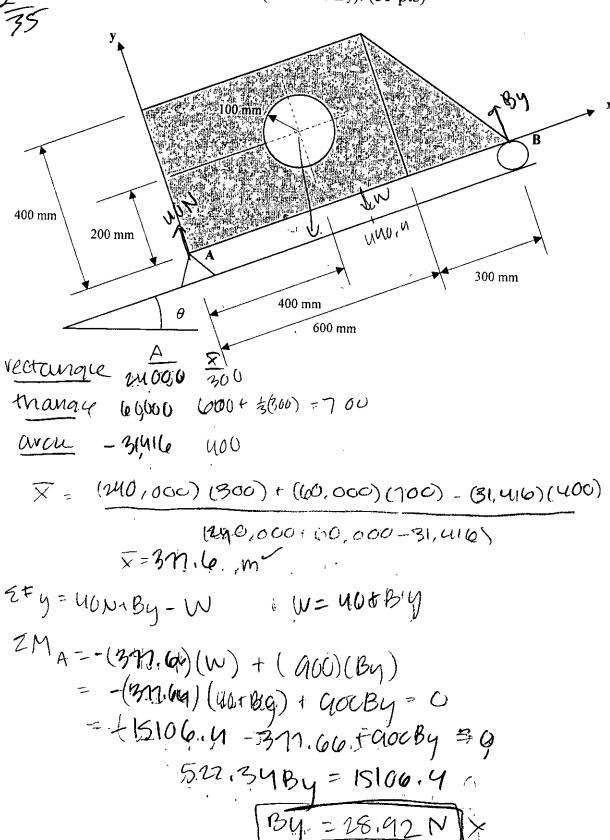
AA 210 Statics Midterm #2 – Winter 2009

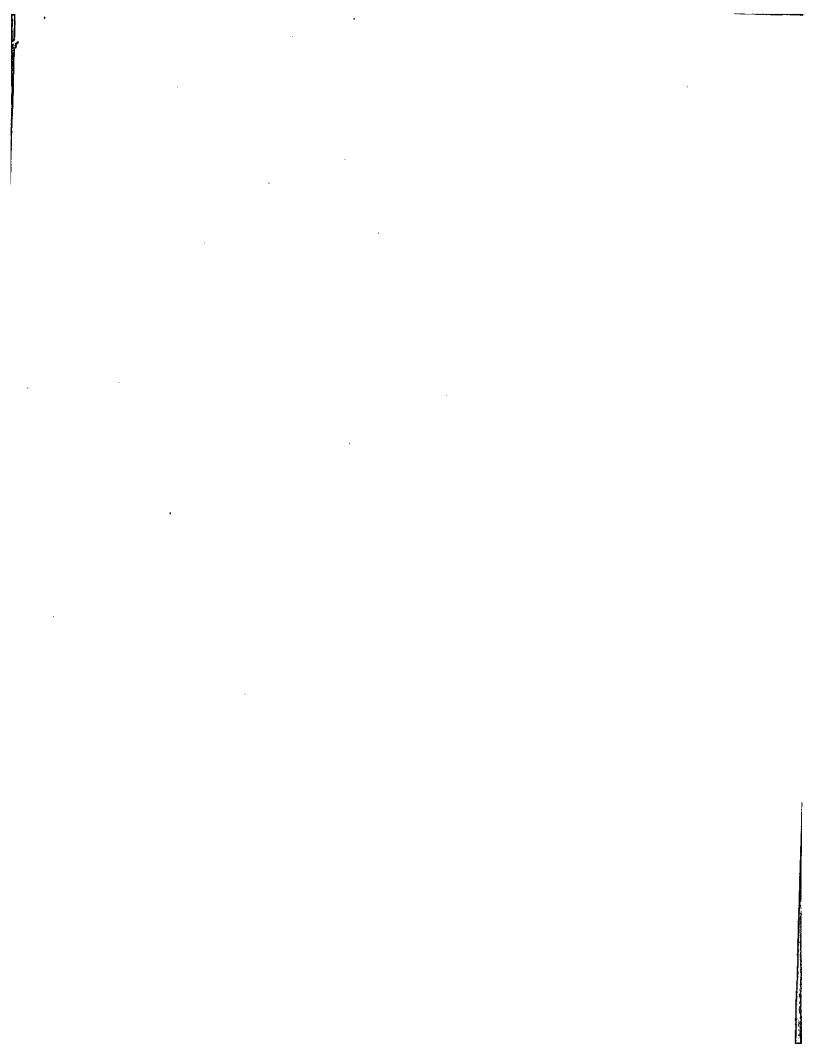
(60 min, Open Book & Open Notes; show all work and FBD's)

Version B

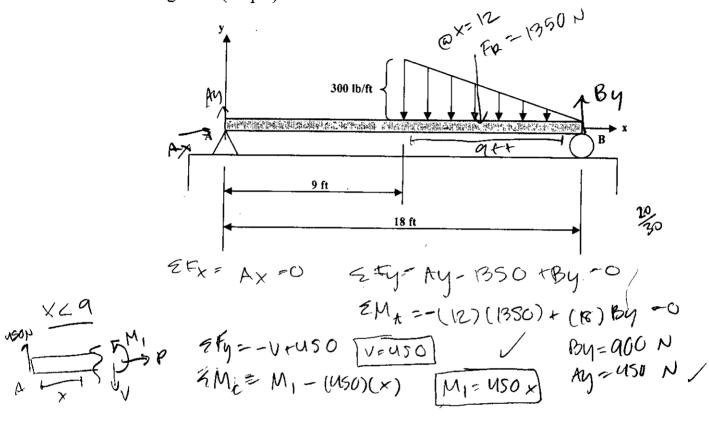


2. A homogeneous flat plate with a circular hole (r=100 mm, as shown) is sitting on an inclined platform, $\theta = 28^{\circ}$. Knowing that Ay is 40 N, determine the reaction at B (which is By). (35 pts)





3. The weightless beam below is subjected to a distributed load as shown. Draw the shear force & bending moment diagrams for the entire beam and indicate those values of A, B, and middle of the beam on the diagrams. (30 pts)



$$\frac{92 \times 218}{400} = \frac{360}{9} = \frac{h}{900} = \frac{360}{900} = \frac{h}{900} = \frac$$

V = 480 V = 480 V = 480 V = 480 V = 18 V = 18