

BE1200 - Fall 2009

Name: \_\_\_\_\_ Solution \_\_\_\_\_

Prof. Mohamad Hassoun, WSU

Quiz # 4 (20 minutes. CLOSED Book/Notes)

I. (6 beams x 6 units per beam) + (4 plates x 2 units per plate) = 44 units high

AD:  $44^2 + 5^2 = 1961$       AD = 44.28 units

**AC:  $44^2 + 10^2 = 2036$       AC = 45.12 units**

AB:  $44^2 + 15^2 = 2161$       AB = 46.48 units

AC will be a good fit because it is very close to a multiple of 5

II.

a.  $GR = 1/625 = 0.016$

b. 625