

King Fahd University of Petroleum & Minerals  
DEPARTMENT OF CIVIL & ENVIRONMENTAL ENGINEERING  
**CE 203 STRUCTURAL MECHANICS I (Section 2)**  
Second Semester 1435 / 2014 (132)

Name: \_\_\_\_\_  
ID #: \_\_\_\_\_

**Quiz # 4**

Score \_\_\_\_\_  
10

*Rewrite the solution of the problem below from the HW that you just did (without looking at your solution).*

The three suspender bars are made of A-36 steel and have equal cross-sectional areas of  $450 \text{ mm}^2$ . Determine the average normal stress in each bar if the rigid beam is subjected to the loading shown.

$$e = \delta = \frac{PL}{AE}$$

