

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 # 13

Score
10

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

Draw Mohr's circle that describes each of the following states of stress.

Diagram (a) shows a square element with a vertical normal stress of 700 kPa (tension) and a horizontal normal stress of 600 kPa (tension).

Diagram (b) shows a square element with a vertical normal stress of 4 MPa (tension) and a horizontal normal stress of 4 MPa (tension).

Diagram (c) shows a square element with a vertical normal stress of 40 MPa (tension) and a horizontal normal stress of 40 MPa (tension).

Below the diagrams are several sets of horizontal dashed lines for drawing Mohr's circles.