

MTH 1210, FALL 2013
DR. GRAHAM-SQUIRE

SECTION 6.2: IN CLASS ACTIVITY

1. NAMES

2. INSTRUCTIONS

Read the problem given below, then work on it with the other members of your group. You should give a complete answer with all of your work shown for each question. It is fine for different people to work on different parts of the question, but you should check each other's work since everyone in the group will receive the same grade for the assignment. If you have any questions, ask the other members of your group first. If all of you are stuck, everyone in the group must raise their hand in order to get help from the professor. Attach this as a cover sheet to the work you turn in.

Exercise 1. To estimate the height of a mountain above a level plain, the angle of elevation to the top of the mountain is measured to be 32° . One thousand feet closer to the mountain, the angle of elevation is measured to be 35° . Find the height of the mountain.

Exercise 2. From a satellite 600 miles above the earth, it is observed that the angle θ formed by the vertical and line of sight to the horizon is 60.276° . Use this information to find the radius of the earth.

