

FE 308 Quiz 2

Show your work for calculations

Measurement Errors

Name _____

1. You have measured a slope distance of 113.1' and a vertical distance of 93.1' between two points. What is the horizontal distance between these points? (3 pts)
2. Convert the following azimuths into bearings (2 points):
 - a. 187°
 - b. 331°
3. Using a steel tape, a surveyor measures a distance of 689.00' between two points. The surveyor records an outside air temperature of 53° F during the time of the measurement. After calculating and applying a correction factor for temperature, will the adjusted measurement between the two points be less than or greater than 689.00'? (2 pts)
4. You measure a slope of 51% and a slope distance of 45.2' between two points. What is the horizontal distance between the points? (3 pts)