

Department of Mathematics and Statistics
Semester 122

STAT319

Quiz4

Saturday April 27, 2013

Name: _____ ID #: _____

1. Production standards for the coating weights for large pipes resulting from a galvanized coating process call for a true average weight of 200 lbs. per pipe. A sample of 25 pipes gave a mean of 206.73 lbs. with a standard deviation of 6.35. Do the data support the claim that the product meets the specifications?

2. The gas company claims that one-fifth of the homes in the city are heated by gas. Do we have reason to believe that fewer than one fifth are heated by gas, if in a random sample of 1000 homes in the city, 136 are head by gas? Use a p-value in your conclusion.