**PROBLEM # 3** A certain type of cable was advertised as having a breaking strength of 1000 pounds. A test of XX pieces of this cable was conducted and the mean breaking strength of this sample was XXX pounds with a sample standard deviation of XX pounds. Conduct a two-tail hypotheses test at alpha = .05 to determine if this sample data provides sufficient evidence to indicate that the cable is as strong as advertised.

**I will provide specific values for the X’s.**

**PROBLEM # 4** Conduct a 95% confidence interval on the sample data in Problem 3 above.