A battery manufacturer claims that their batteries last at least 500 hours on average. A quality control analyst believes that the actual average life of the batteries is less than 500 hours.

To test this claim, the analyst selects a random sample of 36 batteries, and finds that the sample mean lifetime is 485 hours, with a sample standard deviation of 20 hours.

At a 5% level of significance, test the analyst's claim using the p-value method. Assume battery lifetimes are approximately normally distributed.

Double-click (or enter) to edit

Double-click (or enter) to edit

null hypothesis (ho):u=500 alternate hypothesis (h1):u<=500

♦ What can I help you build? ⊕ ⊳