Suppose that a small college claims that they graduate at least 500 students every semester. A random sample of 31 semesters yields a sample mean of with a sample standard deviation of s=65.

Given that the pair of hypotheses that correspond to the claim are:

**H0: μ 500**

**H1: μ** < **500**

Find the critical value for the hypothesis test. Assume that the significance level is a=0.02.

**Answer z=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Round your final answer to two decimal places.**

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