Problem 2 (10 pts.)

To answer a numerical value, enter only the numerical value in the answer box and units are not required. If a problem statement says "up to N decimal places," answer by rounding off the N+1 decimal places.

When we randomly selected 50 people from a population and conducted a questionnaire, 21 people answered that they had a smartphone, and 29 people said they did not. Find the lower and upper 95% confidence intervals (a fractional value from 0 to 1 rather than a percentage) to the third decimal place for the smartphone penetration rate of the population. You can use ai_mid2_sample.ipynb file if you need.

Lower limit

0.283

Upper limit

0.557

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