

Homework for YouTube video 4-10-20

From AP Classroom

A one-sided hypothesis test is to be performed with a significance level of 0.05. Suppose that the null hypothesis is false. If a significance level of 0.01 were to be used instead of a significance level of 0.05, which of the following would be true?

- A** Neither the probability of a Type II error nor the power of the test would change.
- B** Both the probability of a Type II error and the power of the test would decrease.
- C** Both the probability of a Type II error and the power of the test would increase.
- D** The probability of a Type II error would decrease and the power of the test would increase.
- E** The probability of a Type II error would increase and the power of the test would decrease.