Testing – 6.1 Specification testing

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Practice quiz

1. If the hypothesis test does not reject the null hypothesis, we can conclude that the null hypothesis is true.

   (a) True

   (b) False

2. When we reject a true null hypothesis, we commit a Type I error.

   (a) True

   (b) False

3. When the null hypothesis is false and is not rejected, you make a type II error.

   (a) True

   (b) False

4. The power of a test is the probability of rejecting the null hypothesis when it is true.

   (a) True

   (b) False

5. If the level of significance α of a test is increased, the power of the test decreases.

   (a) True

   (b) False

6. If a null hypothesis is rejected at the level of significance 0.01, it is also rejected at the level of significance 0.05.

    (a) True

    (b) False

7. For a given level of significance, if the sample size is increased, the power of the test decreases.

    (a) True

    (b) False