Chapter 10

1.How do we formulate the hypothesis when testing the differences between two normal population means (two-sided)?

$H_0: \mu_x - \mu_y = 0 \qquad H_1: \mu_x - \mu_y \neq 0$

2. What is the difference in t or z at a one-sided and two-sided test?

In a two-tailed test, the alpha is divided by two.

3. With which distribution do we test the equality of the variations between two normally distributed populations?

With the F distribution

4. How do we formulate the hypothesis when testing the equality of the variations between two normally distributed populations?

$H_0: \sigma_x^2 = \sigma_y^2 \qquad H_1: \sigma_x^2 \neq \sigma_y^2$

5. What are the key assumptions of hypothesis testing based on?

The assumption that the underlying distribution is normal, or that the central limit theory is applicable.

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