

Paired t Test – Accept or Reject H_0 ?

For each of the following Test Statistics and Critical Regions, choose if we should ACCEPT or REJECT H_0 .

$$H_0: \mu_d = 0$$

$$H_1: \mu_d \neq 0$$

Test Statistic: +2.414
Critical Value(s): ± 2.201

- ☐ ACCEPT H_0
☐ REJECT H_0

$$H_0: \mu_d = 0$$

$$H_1: \mu_d \neq 0$$

Test Statistic: -3.015
Critical Value(s): ± 3.055

- ☐ ACCEPT H_0
☐ REJECT H_0

$$H_0: \mu_d = 0$$

$$H_1: \mu_d > 0$$

Test Statistic: +1.658
Critical Value(s): +1.685

- ☐ ACCEPT H_0
☐ REJECT H_0

$$H_0: \mu_d = 0$$

$$H_1: \mu_d > 0$$

Test Statistic: +2.814
Critical Value(s): +2.228

- ☐ ACCEPT H_0
☐ REJECT H_0

$$H_0: \mu_d = 0$$

$$H_1: \mu_d < 0$$

Test Statistic: -1.601
Critical Value(s): -1.350

- ☐ ACCEPT H_0
☐ REJECT H_0

$$H_0: \mu_d = 0$$

$$H_1: \mu_d \neq 0$$

Test Statistic: -1.709
Critical Value(s): ± 1.753

- ☐ ACCEPT H_0
☐ REJECT H_0

$$H_0: \mu_d = 0$$

$$H_1: \mu_d < 0$$

Test Statistic: -2.765
Critical Value(s): -2.567

- ☐ ACCEPT H_0
☐ REJECT H_0

$$H_0: \mu_d = 0$$

$$H_1: \mu_d > 0$$

Test Statistic: +1.476
Critical Value(s): +2.861

- ☐ ACCEPT H_0
☐ REJECT H_0

$$H_0: \mu_d = 0$$

$$H_1: \mu_d < 0$$

Test Statistic: -1.335
Critical Value(s): -1.328

- ☐ ACCEPT H_0
☐ REJECT H_0