Answer on Question #78837 – Math – Statistics and Probability

Question

State whether the null hypothesis should be rejected on the basis of the given P-value

(i) P-value = 0.0684, α = 0.10, two tailed test

(ii) P-value = 0.0153, α = 0.01, one tailed test

(iii) P-value = 0.0232, α = 0.05, two tailed test

(iv) P-value = 0.002, α = 0.01, one tailed test.

Solution

(i) Reject the null hypothesis $(0.0684 < 0.10)$.

(ii) Fail to reject the null hypothesis $(0.0153 > 0.01)$.

(iii) Reject the null hypothesis $(0.0232 < 0.05)$.

(iv) Reject the null hypothesis $(0.002 < 0.01)$.

Answer: (i) Reject the null hypothesis; **(ii)** Fail to reject the null hypothesis;

(iii) Reject the null hypothesis; **(iv)** Reject the null hypothesis.