## Answer on Question#37873 - Math - Statistic and Probability

Question.

The one sample t statistic from a sample of n=42 observations for two sided test of for testing:

 $h0:\mu = 81$ 

h1:μ ≠ 81

has the value Z = 1.12. what is the P value of this test statistic?

Solution

The p-value = P(Z > |z|) = P(Z < -1.12) - P(Z > 1.12) = 2 \* P(Z < -1.12) = 0.2627

Formula used:  $P(Z \le z) = \int_{-\infty}^{z} \frac{1}{\sqrt{2\pi}} e^{-\frac{u^2}{2}} du$ .