No Need to Memorize the t-value σ , formulas, they will be given in the question.

How to solve (two samples test) using TDist

Step 1 State the hypotheses and identify the claim.

Step 2 To find p-value

Compute the test value.

$$t = \frac{\overline{x} - \overline{y}}{\sigma_{x,y} * \sqrt{\frac{2}{n}}} \quad \text{where:} \quad \sigma_{xy} = \sqrt{\frac{1}{2}(\sigma_x^2 + \sigma_y^2)}$$

Then use Tdist function with degree of freedom = 2n - 2

Step 3 Make the decision depending on Table 1

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How to solve (one sample test) using TDist

Step 1 State the hypotheses and identify the claim.

Step 2 To find p-value using the Tdist function:

$$t = \frac{\bar{x} - \mu_0}{\sigma / \bar{\mu}}$$

Compute the test value.

x

Where: is the sample mean, σ sample standard deviation, n is the sample size, and μ_0 is the population mean. Distribution of the sample is assumed to be normal then you'll use \mathbf{Tdist} function to find P-value with degree of freedom = n-1.

 ${\bf Step~3}~~{\bf Make~the~decision~depending~on~Table~1}$