

### Aufgabe 1:

#### Hypothesis Tests for Bearbeitungszeit

Sample mean = 5,51

Sample median = 5,55

Sample standard deviation = 0,433205

#### t-test

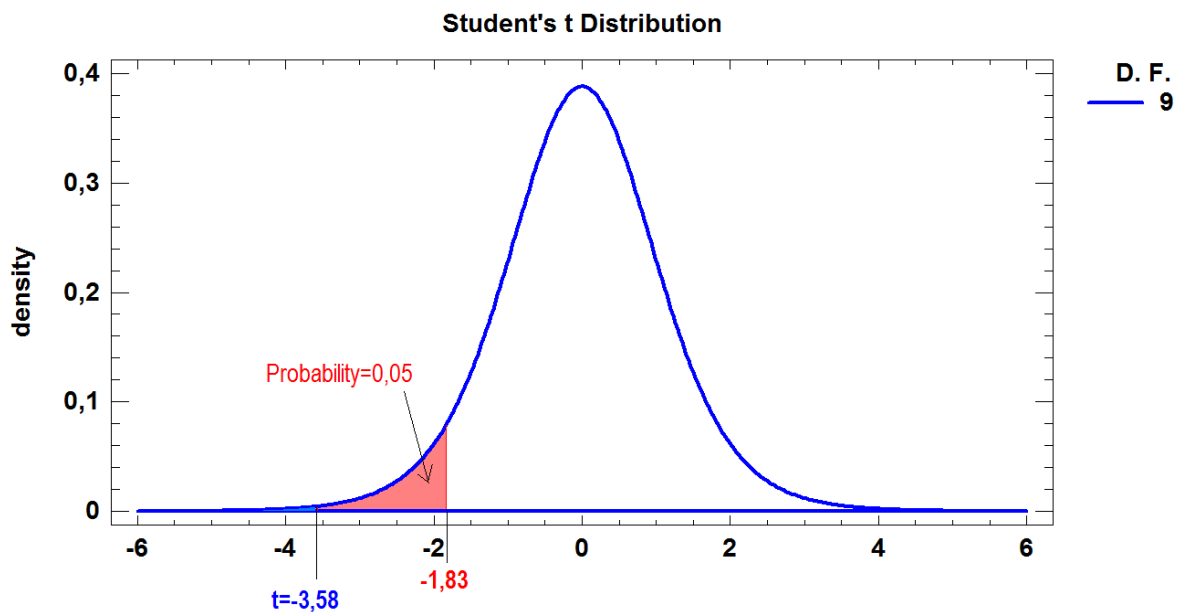
Null hypothesis: mean = 6,0

Alternative: less than

Computed t statistic = -3,57686

P-Value = 0,00297995

Reject the null hypothesis for alpha = 0,05.



### Aufgabe 3:

#### Hypothesis Tests

Sample proportion = 0,07

Sample size = 200

Approximate 99,0% lower confidence bound for p: [0,0344544]

Null Hypothesis: proportion = 0,05

Alternative: greater than

P-Value = 0,129892

Do not reject the null hypothesis for alpha = 0,01