Name: _____

1. An experiment has n_1 = 7 plants in the treatment group and n_2 = 4 plants in the control group. After some time, the plants' heights (in cm) are measured, resulting in the following data:

	value1	value2	value3	value4	value5	value6	value7
sample 1:	1.07	1.03	1.39	0.76	0.82	0.83	0.74
sample 2:	1.05	0.84	1.62	1.19			

   (a) Determine degrees of freedom.
   (b) Determine $t^\star$ for a 90% confidence interval.
   (c) Determine *SE*.
   (d) Determine a lower bound of the 90% confidence interval of $\mu_2 - \mu_1$.
   (e) Determine an upper bound of the 90% confidence interval of $\mu_2 - \mu_1$.
   (f) Determine $|t_{\text{obs}}|$ under the null hypothesis $\mu_2 - \mu_1 = 0$.
   (g) Determine a lower bound of the two-tail *p*-value.
   (h) Determine an upper bound of two-tail *p*-value.
   (i) Do you reject the null hypothesis with a two-tail test using a significance level α = 0.1? (yes or no)

1. (a) | | | | | | | . | | |
   (b) | | | | | | | . | | |
   (c) | | | | | | | . | | |
   (d) | | | | | | | . | | |
   (e) | | | | | | | . | | |
   (f) | | | | | | | . | | |
   (g) | | | | | | | . | | |
   (h) | | | | | | | . | | |
   (i) |