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:	128	130	157	122	100	160	112
sample 2:	100	91	111	95			

   (a) Determine degrees of freedom.

   (b) Determine $t^\star$ for a 96% confidence interval.

   (c) Determine *SE*.

   (d) Determine a lower bound of the 96% confidence interval of $\mu_2 - \mu_1$.

   (e) Determine an upper bound of the 96% 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 = 0.04? (yes or no)

1. (a) | | | | | | | . | | |

   (b) | | | | | | | . | | |

   (c) | | | | | | | . | | |

   (d) | | | | | | | . | | |

   (e) | | | | | | | . | | |

   (f) | | | | | | | . | | |

   (g) | | | | | | | . | | |

   (h) | | | | | | | . | | |

   (i) |