You should be able to place all of your answers on two pages.

1. a) Hypothesis tested: After one month of normothermic detraining, detrained animals will exhibit muscle atrophy in their gastrocnemius versus the wild caught field animals.
b) $H_0$: After one month of normothermic detraining, there is no difference in the muscle mass of the gastrocnemius between wild caught field and detrained animals.
c) Unpaired, one-tailed t-test

![Figure 1](image1.png)

**Figure 1.** The gastrocnemius of detrained animals atrophied by 37% compared to wild caught field animals ($p = 0.00014$, unpaired, one-tailed t-test). Data are expressed as Mean ± SEM.

I will normally do not ask for this data table except for assignments like this. Please do not include this t-table on any of your research papers unless I specifically ask for it.

<table>
<thead>
<tr>
<th></th>
<th>Field</th>
<th>Detrained</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean</td>
<td>12.85714</td>
<td>8.285714</td>
</tr>
<tr>
<td>Observations</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>$P(T&lt;=t)$ one-tail</td>
<td>0.000144</td>
<td></td>
</tr>
<tr>
<td>$P(T&lt;=t)$ two-tail</td>
<td>0.000288</td>
<td></td>
</tr>
</tbody>
</table>

2. a) 2a answer goes here  
b) 2b answer goes here  
c) 2c answer goes here

**Figure 2.** Paste figure two here from Excel with the appropriate labels and caption.

3. a) 3a answer goes here  
b) 3b answer goes here  
c) 3c answer goes here

**Figure 3.** Paste figure three here from Excel with appropriate labels and caption.