- 1. What are the names of the people in your study group?
- 2. Calculate the probability in the following areas under the Standard Normal pdf with mean of zero and standard deviation of one. You might usefully draw pictures as well as making the calculations. For the calculations you can use either a computer or a table.
 - a. For a Standard Normal Distribution, what is area to the right of 1.2? **0.12**
 - b. For a Standard Normal Distribution, what is area to the right of 1.9? **0.03**
 - c. For a Standard Normal Distribution, what is area to the left of 0.2? 0.58
 - d. For a Standard Normal Distribution, what is area to the left of -1.5? **o.o67**
 - e. For a Standard Normal Distribution, what is area in both tails farther from the mean than -1.7? **o.o89**
 - f. For a Standard Normal Distribution, what is area in both tails farther from the mean than 2.2? **0.028**
 - g. For a Standard Normal Distribution, what values leave probability 0.08 in the two tails combined? (-1.75,1.75)
 - h. For a Standard Normal Distribution, what values leave probability 0.25 in the two tails combined? (-1.15,1.15)
 - i. For a Standard Normal Distribution, what values leave probability 0.02 in the two tails combined? (-2.33, 2.33)
- 3. What topic do you think you would like to have for your final project? Find an academic article and write a short (about a page) summary. (One article per person so a 3-person study group would write 3 summaries of 3 articles.)
- 4. Use the ATUS dataset and make hypothesis tests about the difference in average time spent on various activities (your choice) depending on demographic characteristics (again, your choice). Carefully explain the null hypothesis and alternate, the test statistic, confidence interval, and p-value for each.