**GEOS 113 – Lab #2**

**The Public Land Survey (1 pt each)**

1. How many sections are in each township and range (T/R)?
2. What is the area of each section in a T/R?
3. Circle the correct answer in each parentheses: Townships are measured (north-south / east-west) of an established baseline, and ranges are measured (north-south / east-west) of an established baseline.

**Topographic Maps**

Using the topographic maps provided in lab, answer the following questions. (2 pts each)

1. What is the T/R to the ¼, ¼ section of the feature indicated on MAP 1?
2. What is the T/R to the ¼, ¼ section of the feature indicated on MAP 2?
3. What is the T/R to the ¼, ¼ section of the feature indicated on MAP 3?
4. What is the T/R to the ¼, ¼ section of the feature indicated on MAP 4?
5. What is the T/R to the ¼, ¼ section of the feature indicated on MAP 5?
6. What is the *coarsest* scale map you explored in lab today? (hint: the one showing the least detail but the most amount of area) (3 pts)
7. These topo maps are 7.5” x 7.5” minute quadrangles, indicating 7.5 mins of latitude and longitude of spatial representation. *Why is the map not a square if the same minutes are used for both latitude and longitude?* (4 pts)