- 1.) What are the three basic entities in an imaging system?
- 2.) Describe the pinhole camera model.
- 3.) What does it mean if a camera has infinite depth of field?
- 4.) Describe the pen and plotter model and the methods needed.
- 5.) Describe the turtle graphics system and the methods needed.
- 6.) Draw and describe a basic graphics pipeline with 4 stages.
- 7.) What is the Sierpinski Gasket. What is the pseudocode for creating a Sierpinski Gasket using random point with subdivision and recursive subdivision (two sets of code).
- 8.) Give the code to create a point in 3 dimensions at 200, 300, 400.
- 9.) In a standard main function, what functions do you need to call to properly initialize OpenGL? Provide the code for a single buffered, RGB system with a window size of 500 x 500 and name "Tests are so Fun!".
- 10.) What's the difference between a logical and a physical input device. Give examples of each.
- 11.) Describe the three main input modes that OpenGL handles.
- 12.) Describe the problem that relates to hidden surface removal. What is the basic method that we are using currently?
- 13.) What are the two coordinate systems that we typically reference in regards to a graphics system?
- 14.) What is the default viewing volume set up by OpenGL (what coordinates)? Give the code to change the coordinate system to go from 0 to 500 on the X, Y and Z axis.
- 15.) List and describe 5 major function groups provided by a 3D API.
- 16.) What is the difference between additive and subtractive color? What does a typical graphics system use?

- 17.) Describe how an indexed color system works.
- 18.) What are the three properties that are required for a polygon to render correctly?
- 19.) Give the code to create a triangle fan with 6 points. Draw what this would look like.
- 20.) Give the basic idea behind the sphere approximation code from your book and provided in class.