Coms 331 Lighting - Material Properties Fall 2007 Homework 13

- 1. Use the program Lecture 13 Demo 1.cpp. In the function setMaterials(), change the value of mat_shininess to 0.0. What is the effect? Is the effect desirable?
- 2. Change the value of mat_shininess to 128.0 (the maximum allowed). What is the effect? Do the surfaces look shinier or less shiny than they did when mat_shininess was 64.0? Change it back to 64.0.
- 3. In the function setLights(), change the value of light_specular to (1.0, 0.0, 0.0, 1.0) (red light). What is the effect? Rotate the scene so that you can observe specular reflections off each of the objects.
- 4. Use the program Lecture 13 Demo 2.cpp. In the function setMaterials(), change the value of mat_emissive from (0.5, 0.0, 0.0, 1.0) to (1.0, 0.0, 0.0, 1.0). What is the effect?
- 5. In the function setMaterials(), change the value of $mat_emissive$ to (1.0, 1.0, 1.0, 1.0). What is the effect? Is the effect desirable? Change it back to (0.5, 0.0, 0.0, 1.0).
- 6. In the function setMaterials(), comment out the function call glEnable(GL_COLOR_MATERIAL). What is the effect?