Physics 391 Lesson 6 Preflight

1. (From previous reading) Why is the sky blue?

2. Explain how reflection can be described by scattering. Include a description of how the reflected wavefront forms. Also include a description of how the phases of the scattered waves produce the reflected wavefront with the same phase. Figures 4.14, 4.15, and 4.16 may help.

3. What are rays and how are they related to wavefronts?

4. Explain physically why a wavefront bends as it enters a higher index of refraction medium at an angle.

5. What is Huygens's Principle?