OK—this is going to be dialogue and homework. I assume that you have the basics of light: color; speed of light; optics basics. I think we need a bit more work on refraction and some other "mop up" topics.



- 9) You have the equations for snell's law and critical angle. Show me how they are actually the same. (*Explain it to me. PS—I can't tell you how, but you will have to be able to use this logic on the test. Again, the logic is in the book.*)
- 10) Read about polarization. (p. 546). How can you use two polarizers to create darkness?
- 11) Read about parabolic mirrors (p. 541) Why would we want to use a parabolic mirror?

Due Feb 14

Using the applet from the internet, again (if you have to).

- 12) Both convergent and divergent devices can produce virtual images. How could you tell the difference just by p and q?
- 13) A student works the following problem: "A convex lens with a 4 cm focal length produces an image 10 cm from the right side of the lens. Find the distance of the object." The student works the problem and gets an answer of p = 9 cm. WITHOUT WORK-ING THE PROBLEM, how can you tell that they did it wrong?
- 14) Do these problems from the book: Ch 14: 21; 27; 37.

