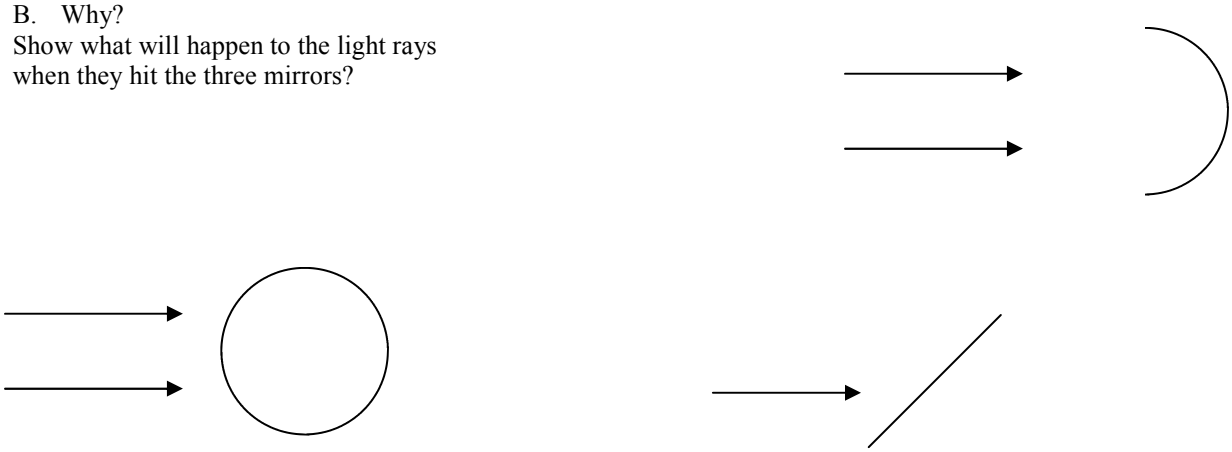
PreAP 2008 Due Feb 28

1. How do we define a real image?
2. Why is it that we can see virtual images?
3. What do scientists call all light, both visible and invisible?
4. What kind of light has the fastest wave speed?
5. We know that light is both a particle and a wave, but what absolutely proves that light is a wave?
6. If magenta light is passed thru a cyan filter, what color is seen?
7. A. What color does a blue filter make the red EXIT sign look like?
   B. Why?
8. Show what will happen to the light rays when they hit the three mirrors?



From now on we will ASSUME that the object is on the left of the mirror or lens. Use your book or the notes I gave for the following:

9. Is the light reflected back from or refracted thru a mirror?
10. Will the light reflect back to the left or to the right?
11. So, which side of a mirror is real: left or right?
12. Is the light reflected back from or refracted thru a mirror?
13. Will the light go thru to the left or to the right?
14. So, which side of a lens is real: left or right?

15. Define these variables: p, q, f, h, h'.

Do these problems from the book: p.550—Q6, 12, 14, 16, 20, 23, 24, 25, 27.