
name

due date

OPTICS FOR ARTISTS HOMEWORK, UNIT THREE, Part I
IMAGING OPTICS

DRAW: Sketch the cross-section of each of the following:

1. A double convex lens 2. A plano-concave lens

3. A positive meniscus lens 4. A spherical concave mirror

5. An arrow is placed between two mirrors at 45 degrees between them. Draw all of its images.

Two positive lenses, one of 250 mm focal length, the other of 150 mm focal length, each focus their own image of the moon onto a white card.

Digital Revision 9/9/03

UNIT THREE: IMAGING OPTICS

6. Which lens will be held closer to the card?
 - a.) 150mm
 - b.) 250 mm
 - c.) Both are the same distance away

7. Which lens's image will be larger?
 - a.) 150mm
 - b.) 50 mm
 - c.) Both are the same size

8. What kind of mirror is a satellite dish, concave or convex?
Why?