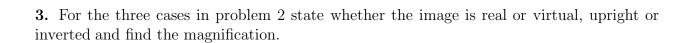
Name_			

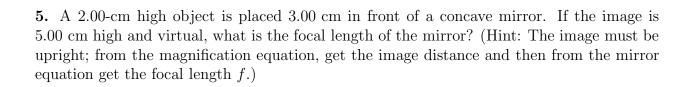
Phys 2020 (NSCC), Spring 2008 Problem Set #8

1. A convex mirror has a radius of curvature of 0.550 m. Locate and describe the image of a person who is 10.0 m from the mirror. Find the magnification of the image.

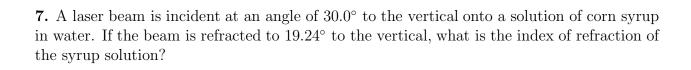
2. A concave spherical mirror has a radius of curvature of 20.0 cm. Locate the images for object distances of: (a) 40.0 cm, (b) 20.0 cm, and (c) 10.0 cm.



4. A dentist uses a mirror to examine a tooth that is 1.00 cm in front of the mirror. The image of the tooth is 10.0 cm behind the mirror. Determine (a) the mirror's radius of curvature and (b) the magnification of the image.



6. A ray of light is incident on the surface of a block of clear ice (index of refraction 1.309) at an angle of 40.0° with the normal. Find the angle (with the normal) of the refracted ray.



8. In problem 7, if the light is red with wavelength 632.8 nm, find the speed, and wavelength of the light in the solution.