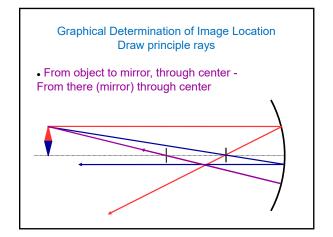
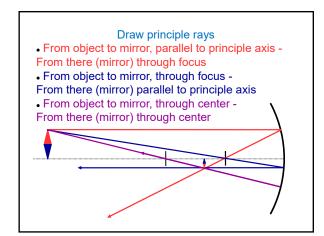
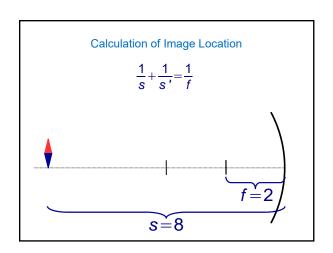
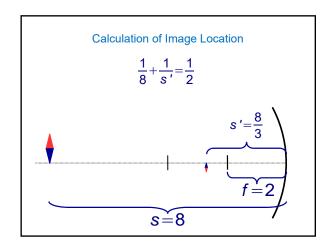


Graphical Determination of Image Location Draw principle rays • From object to mirror, through focus From there (mirror) parallel to principle axis

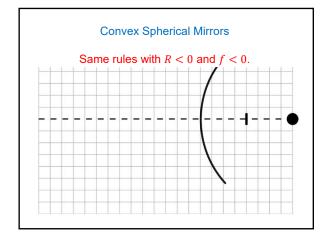


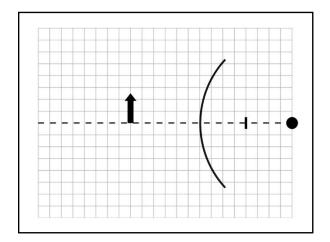


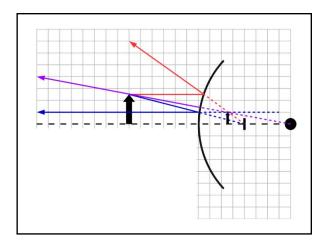




Example: a dime (height is 1.8 cm) is placed 100 cm away from a concave mirror. The image height is 0.9 cm and the image is inverted. What is the focal length of the mirror.







Convex Spherical Mirrors

Image is virtual, upright, and smaller than object.

Example: a convex rearview car mirror has a radius of curvature of 40 cm. Determine the location of the image and its magnification for an object 10 m from the mirror.

Additional Examples

An additional file is provided on the lecture web page including each possible type of image due to a concave spherical mirror.