Answer on Question #51684, Physics, Optics

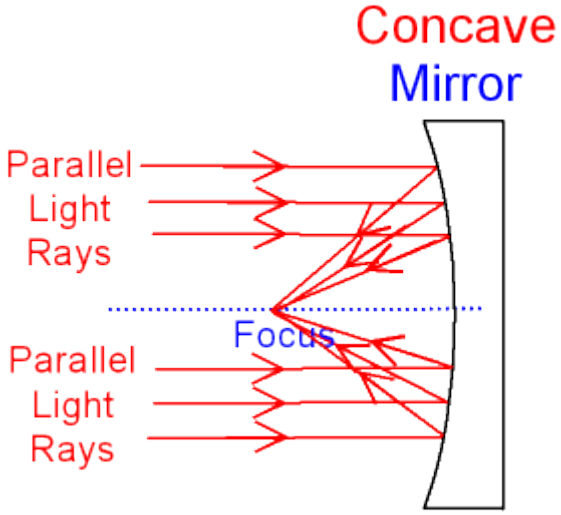
6 If rays of light parallel and close to the principal axis are incident on a --------- mirror, they converge to a point after reflection from the mirror

a. plane

b. convex

c. concave

d. diffuse



Answer: c. concave

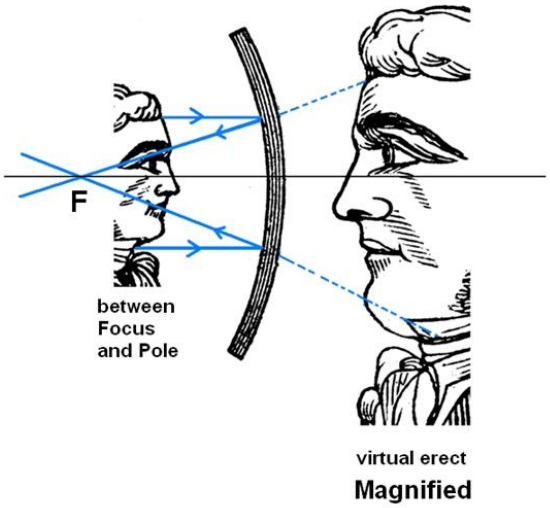
7 What type of mirror would you use to produce a magnified image of your face?

a. plane

b. concave

c. convex

d. diffuse



Answer: b. concave

8 The focal length of a curved mirror is -------- the radius of the spherical surface.

a. twice

b. equal to

c. half

d. one-quarter

The focal length of a spherical mirror is one half the radius of curvature of the mirror.

Answer: c. half

9 The image formed by a bathroom mirror is

a. erect and virtual

b. erect and real

c.inverted and virtual

d. inverted and real

The image formed by a plane mirror is always virtual (meaning that the light rays do not actually come from the image), upright, and of the same shape and size as the object it is reflecting.

Answer: a. erect and virtual

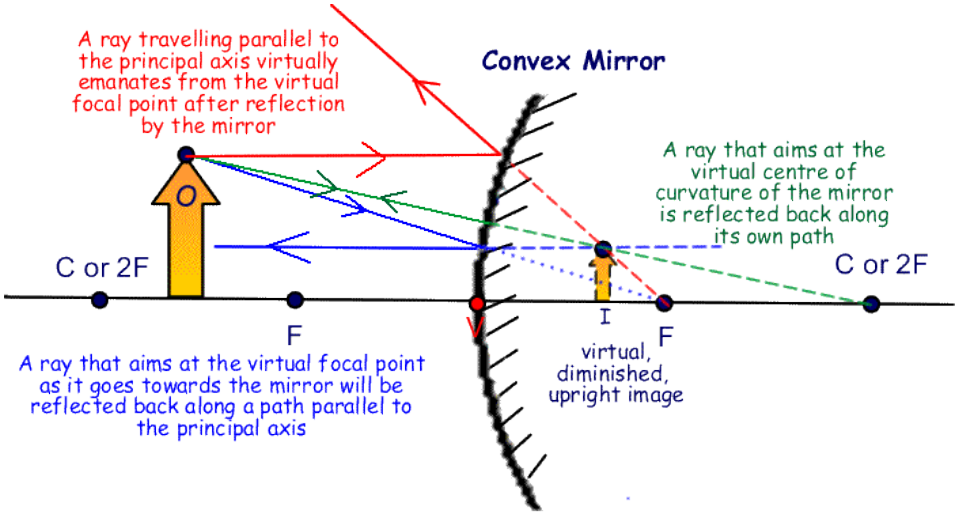
10 What type of image is formed when an object is placed at a distance of 1.5 focal lengths from a convex mirror?

a. erect and virtual

b. inverted and virtual

c. erect and real

d. inverted and real



Answer: a. erect and virtual