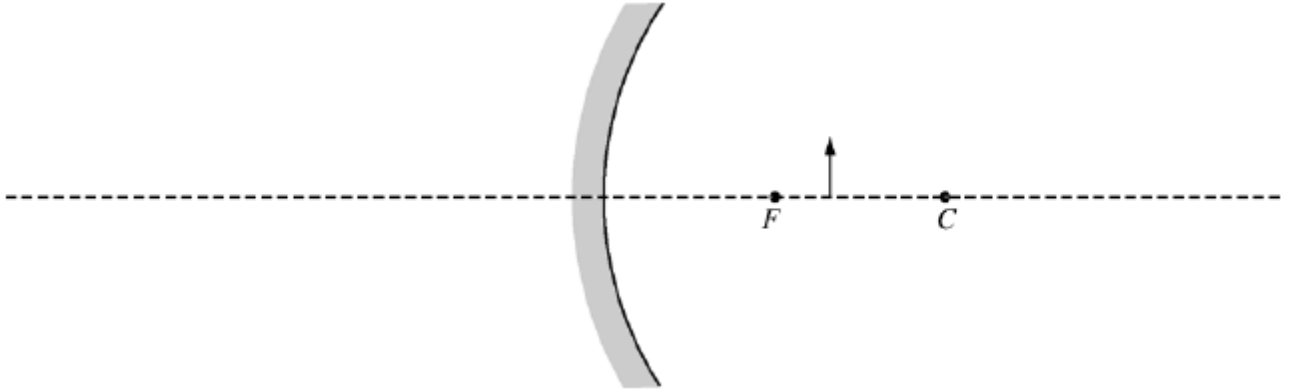


Name: _____ Date: _____

CURVED MIRROR WHITEBOARD



The figure above shows a converging mirror, its focal point F , its center of curvature C , and an object represented by the solid arrow.

(a) On the figure above, draw a ray diagram showing at least two incident rays and the image formed by them.

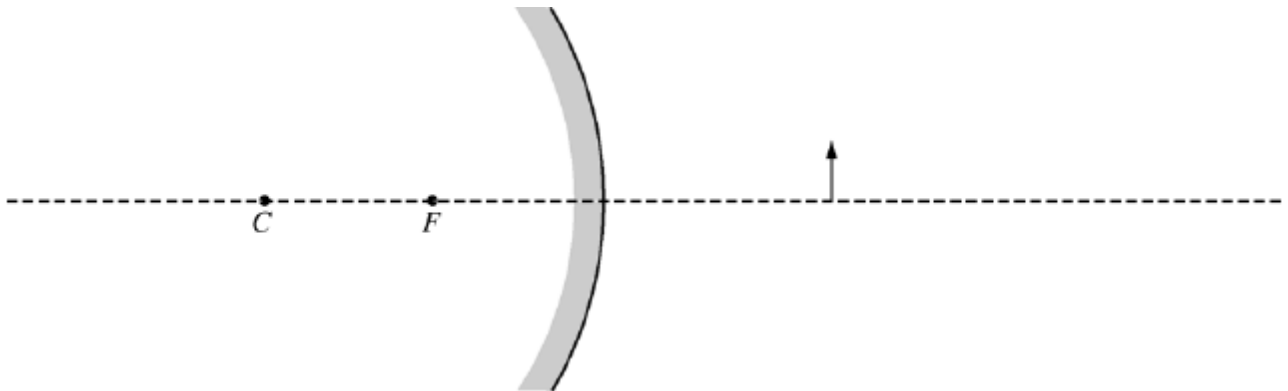
(b) Is the image real or virtual?

___ Real ___ Virtual

Justify your answer.

(c) The focal length of this mirror is 6.0 cm, and the object is located 8.0 cm away from the mirror. Calculate the position of the image formed by the mirror. (Do NOT simply measure your ray diagram.)

(d) Suppose that the converging mirror is replaced by a diverging mirror with the same radius of curvature that is the same distance from the object, as shown below.



For this mirror, how does the size of the image compare with that of the object?

___ Larger than the object ___ Smaller than the object ___ The same size as the object

Justify your answer.