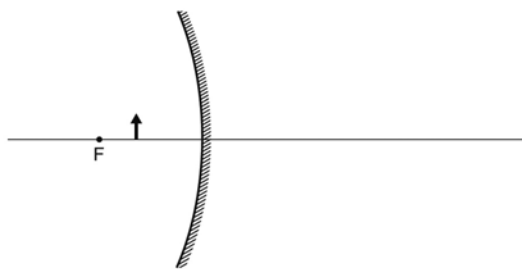


Name: \_\_\_\_\_

### Virtual Image in a Concave Mirror

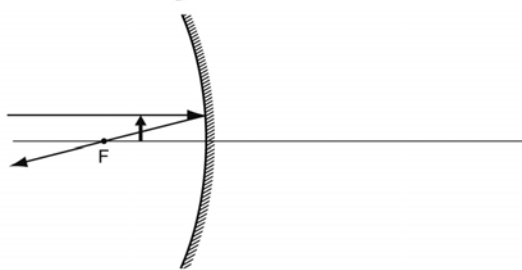
**Step 1**

Draw the object on the principal axis to the left of the mirror.



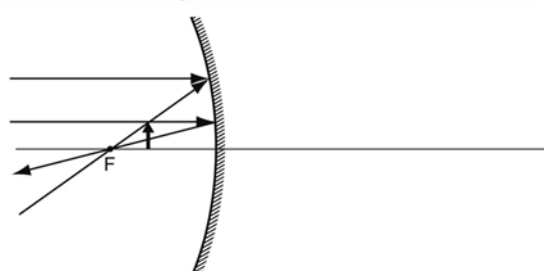
**Step 2**

Draw a ray parallel to the principal axis that goes through the top of the object. The reflected ray goes through F.



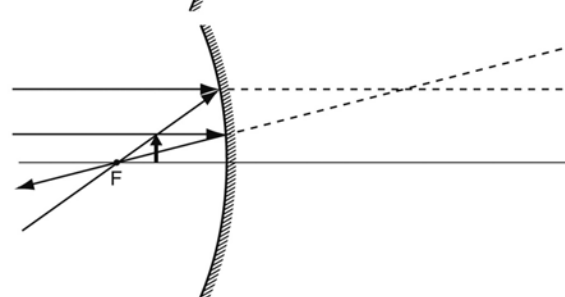
**Step 3**

Draw a ray through F that passes through the top of the object. The reflected ray is parallel to the principal axis.



**Step 4**

The two outgoing rays are diverging. There is no real image. Extend them back through the mirror to locate the virtual image.



**Step 5**

Draw the virtual image. It is large, upright, and located beyond F'.

