

Provide definitions for each of the following terms:

- incandescent light source (give examples): _____

- fluorescence: _____

- phosphorescence: _____

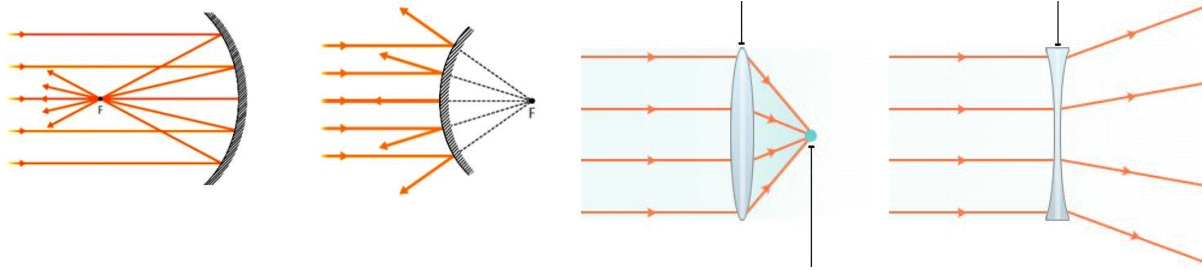
- chemiluminescence: _____

- bioluminescence: _____

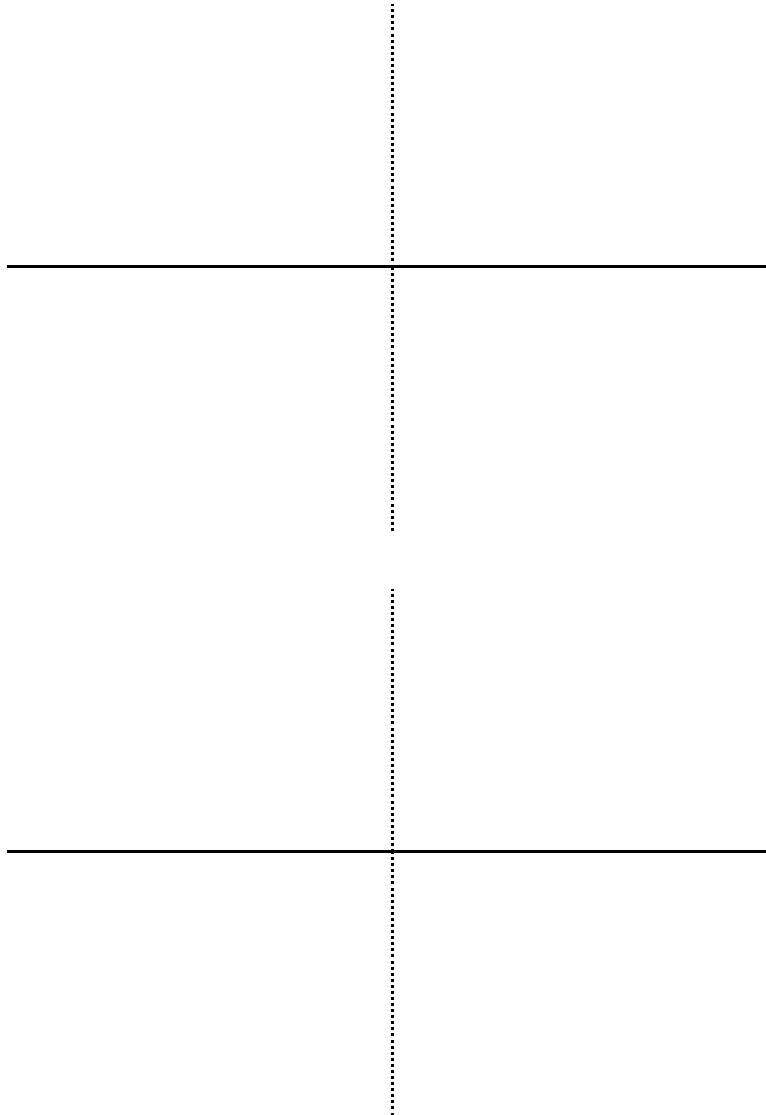
- converging vs diverging rays: _____

What is the colour temperature relationship for incandescent light sources?

Label each mirror or lens as either concave or convex **AND** diverging or converging



Draw two diagrams that illustrate the principle of refraction. The first diagram should be for a ray of light travelling from air to water (from less optically dense to more optically dense). The second diagram should be for a ray of light travelling from water to air (from more optically dense to less optically dense). Label completely! Which way does the ray bend???

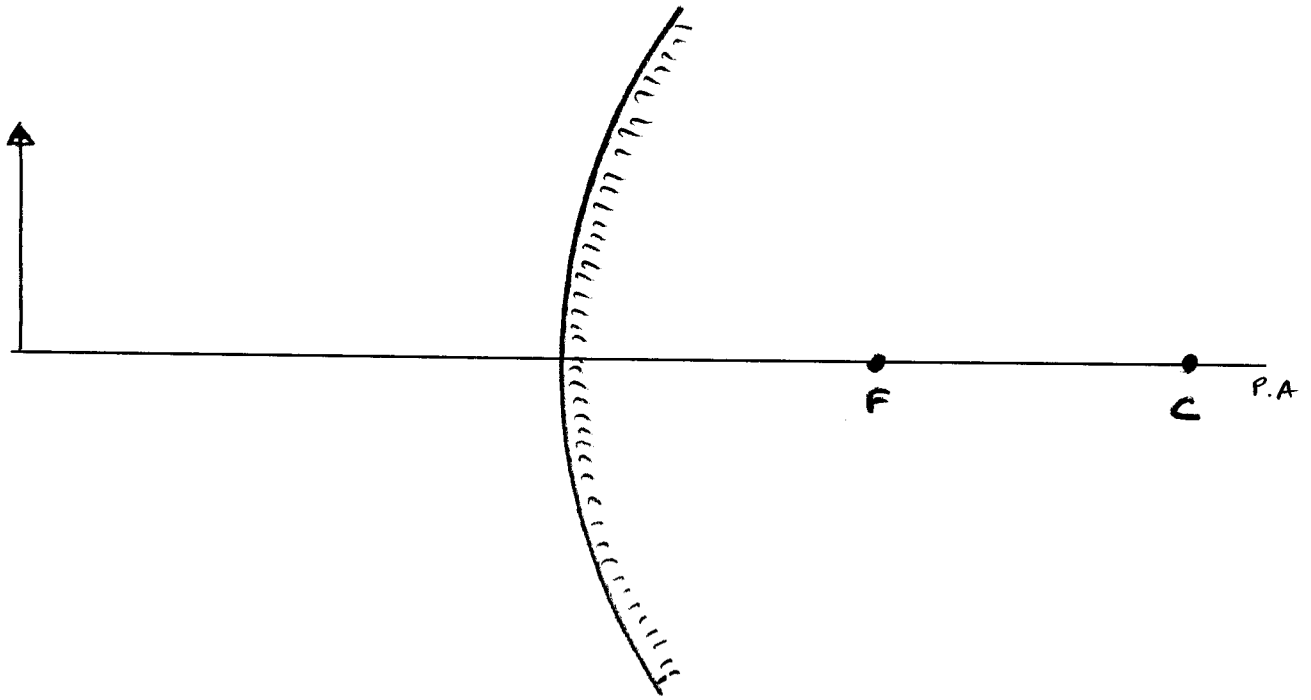
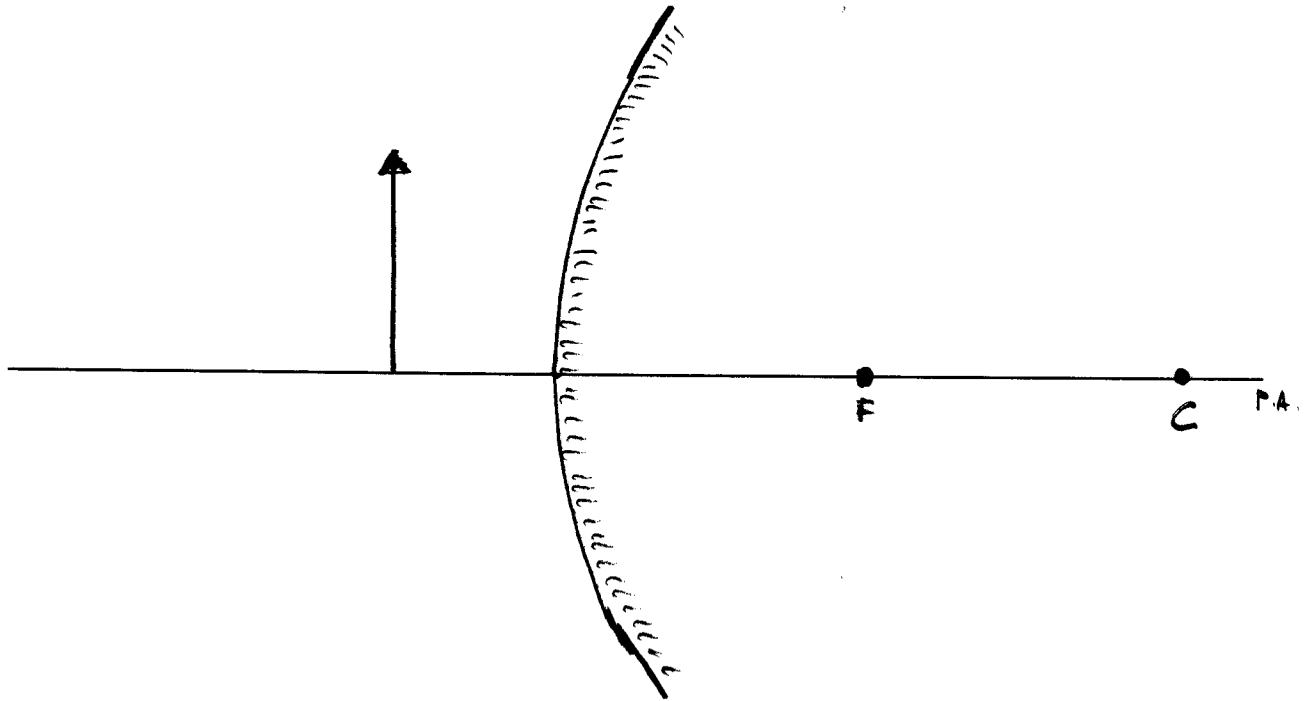


Repeat the above question for reflection from a thin mirror.

Name: _____

Convex Mirror Ray Diagrams

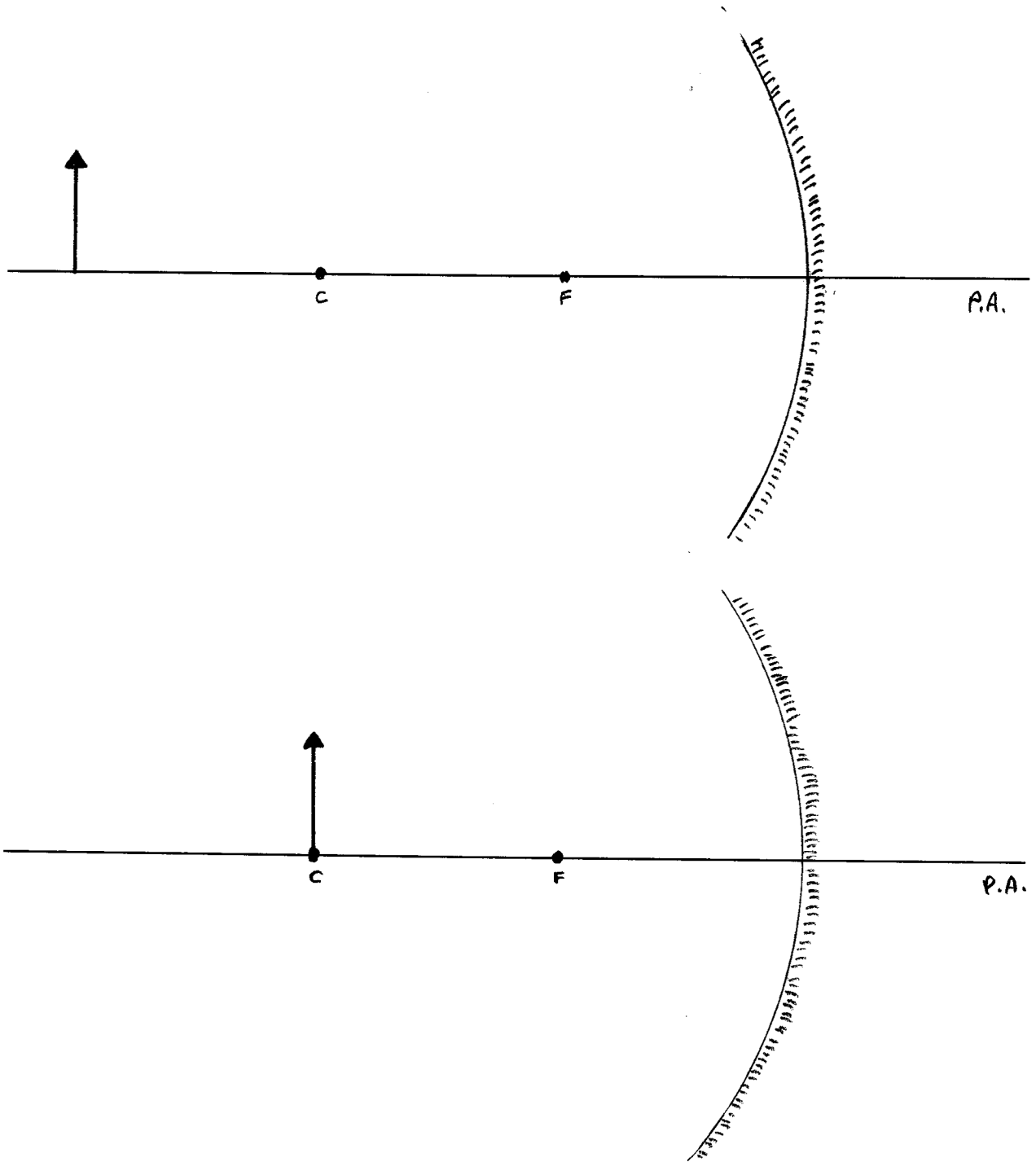
For each of the following objects, draw and locate the image using the four ray method. State the size, orientation, location and type for each image:

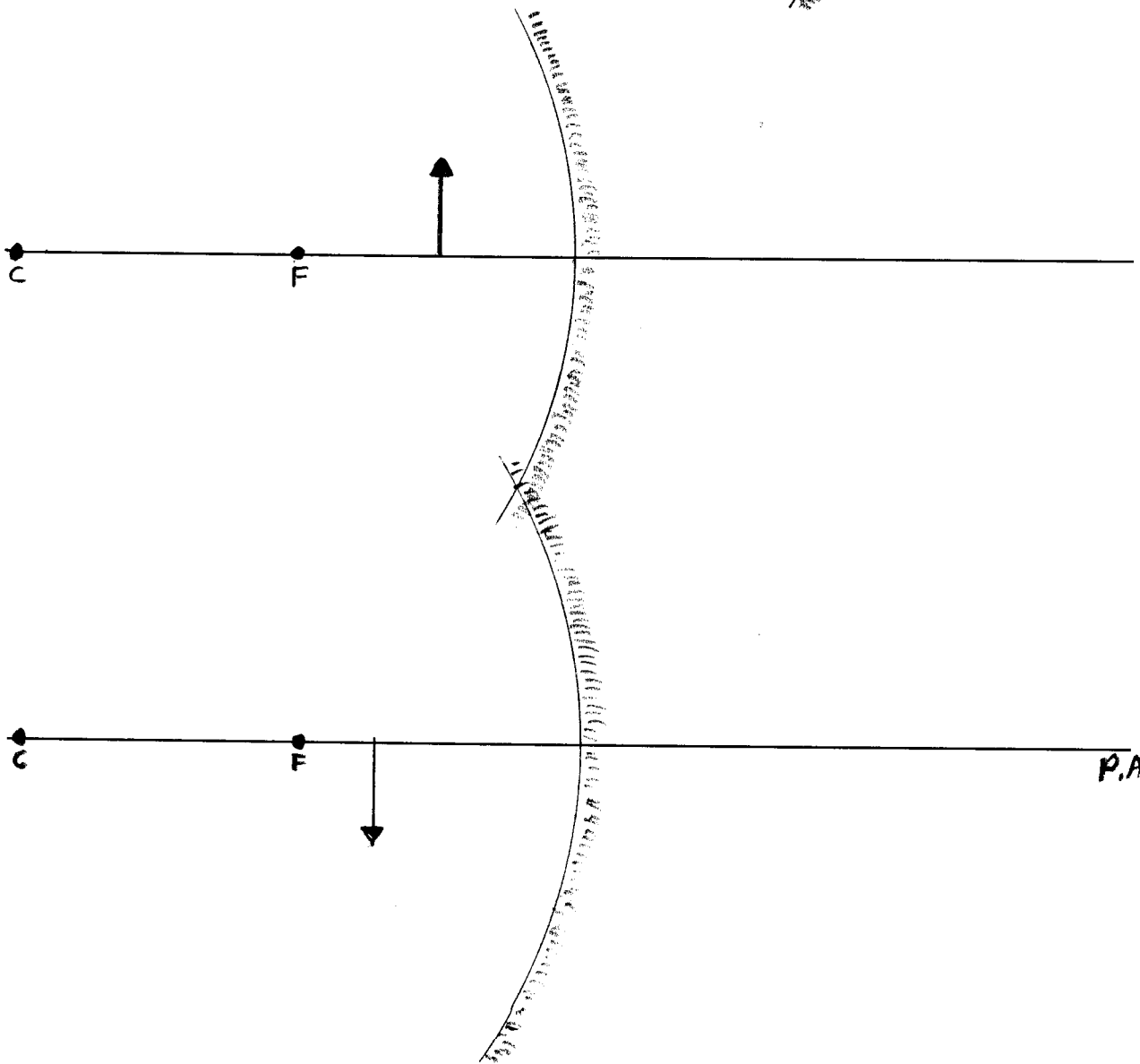
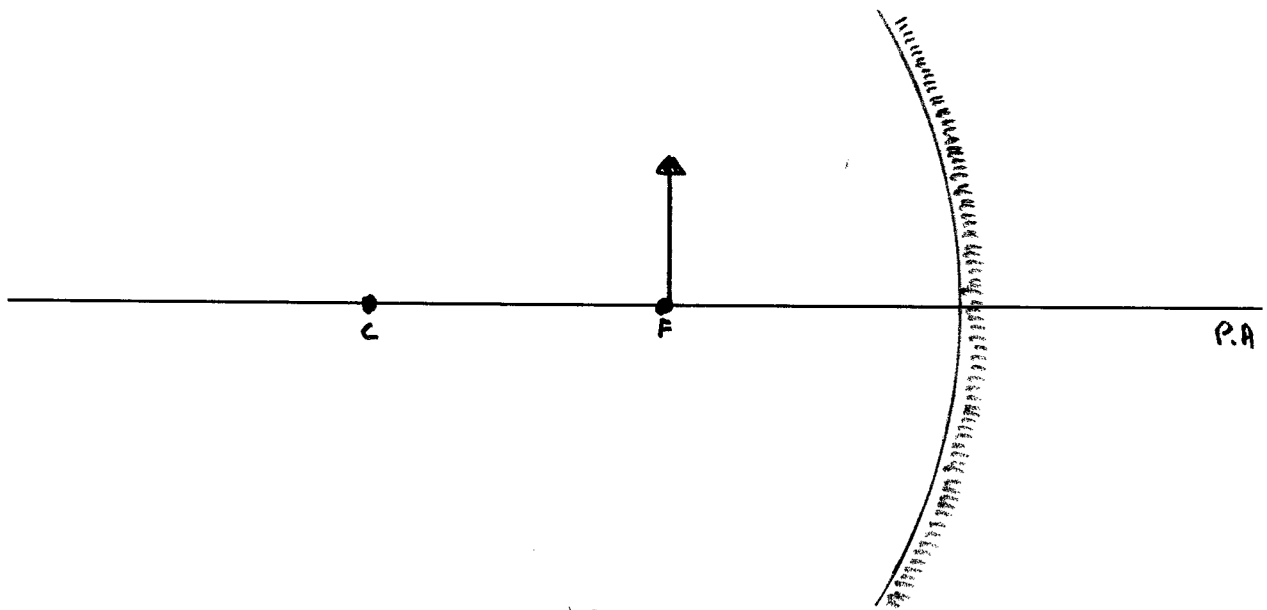


Name: _____

Concave Mirror Ray Diagrams

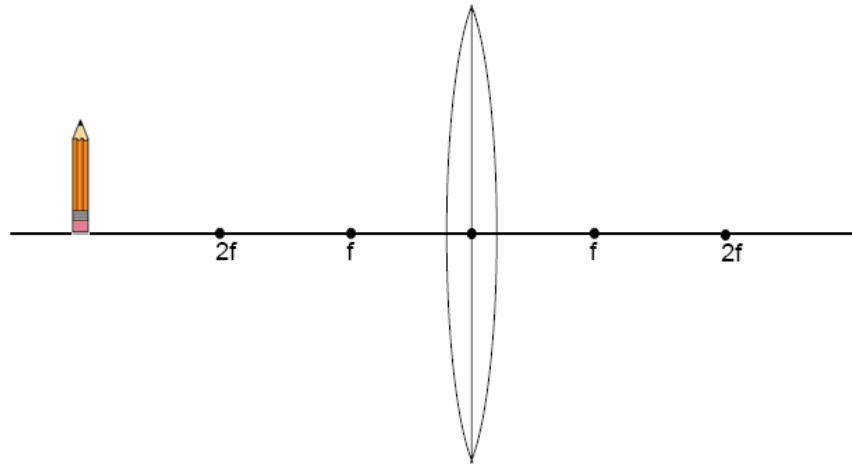
For each of the following objects, draw and locate the image using the four ray method. State the size, orientation, location and type for each image:



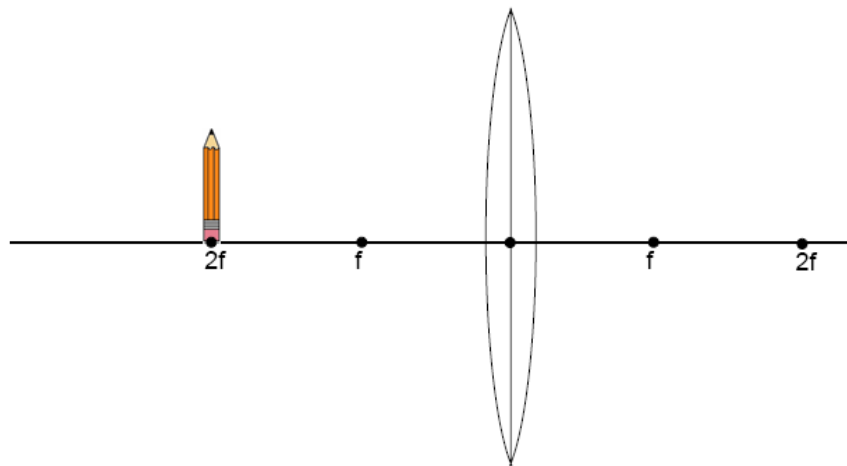


Converging & Diverging Lenses Ray Diagrams

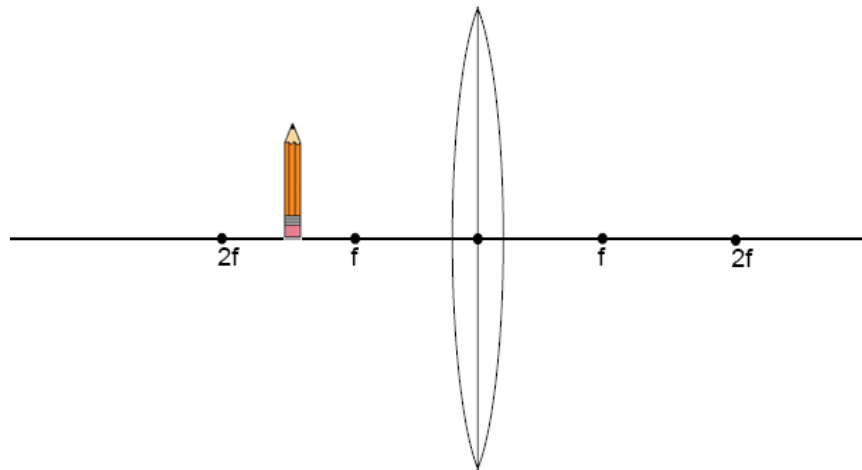
(1)



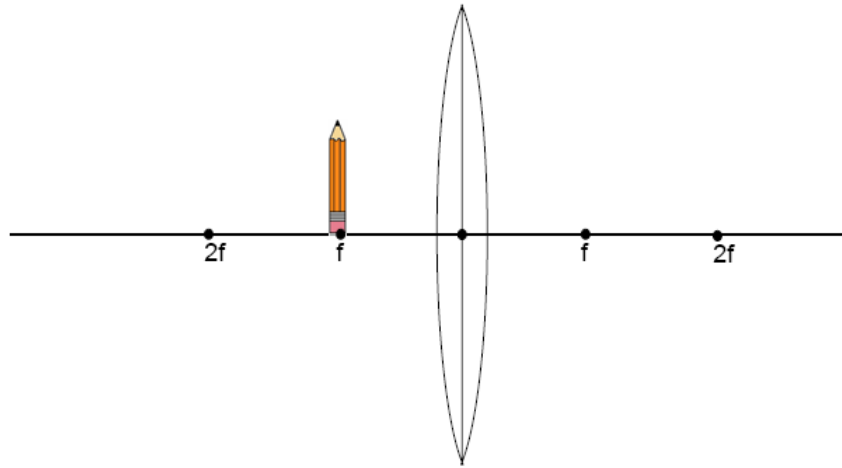
(2)



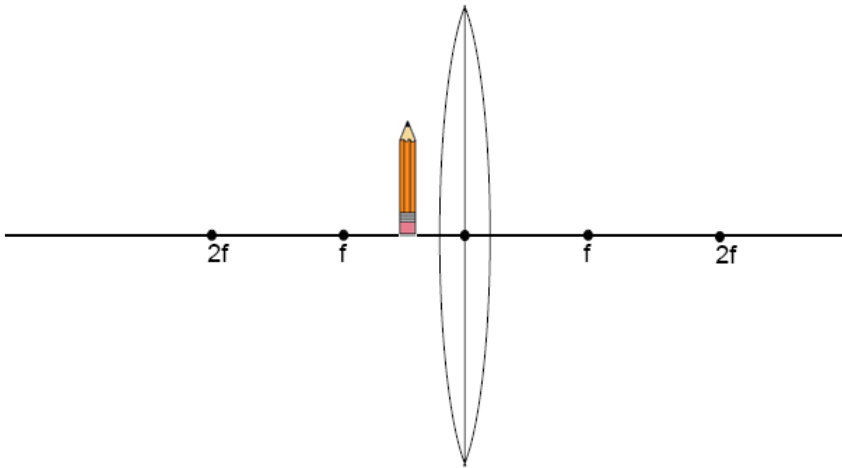
(3)



(4)



(5)



(6)

