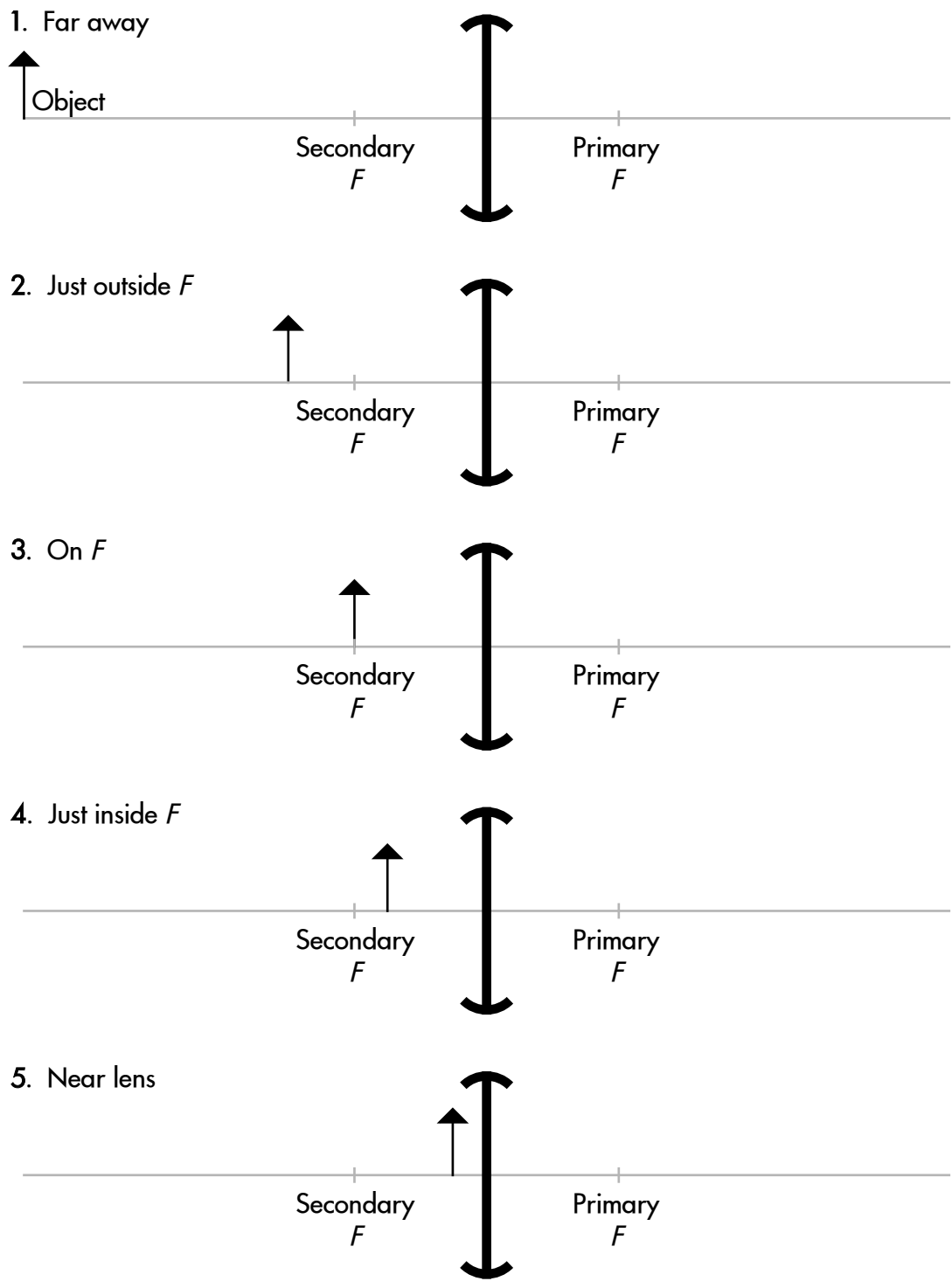


*Converging Lens Ray Tracings*

Do the ray tracings for all five possible object locations for a converging lens. Label each resulting image (if any) as upright/inverted, enlarged/diminished, real/virtual.

Principal rays: (1) parallel  $\rightarrow$  through primary F  
 (2) through center of lens  
 (3) through secondary F  $\rightarrow$  parallel



*Diverging Lens Ray Tracings*

Do the ray tracings for all five possible object locations for a diverging lens. Label each image (if any) as upright/inverted, enlarged/diminished, real/virtual.

Principal rays: (1) parallel  $\rightarrow$  away from primary F  
 (2) through center of lens  
 (3) towards secondary F  $\rightarrow$  parallel

