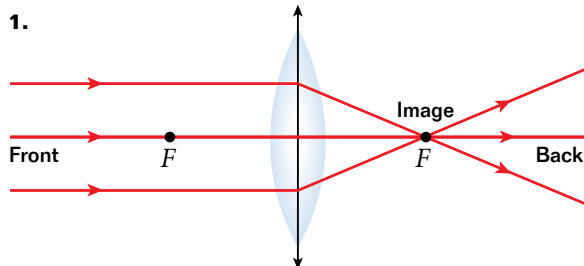


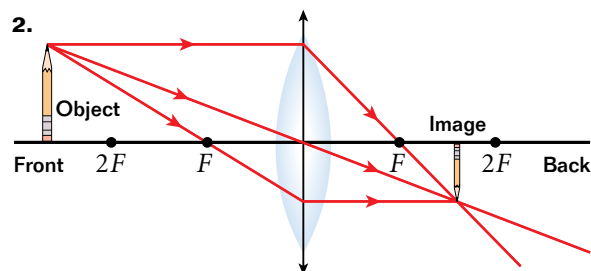
Table 3 Images Created by Converging Lenses

Ray diagrams



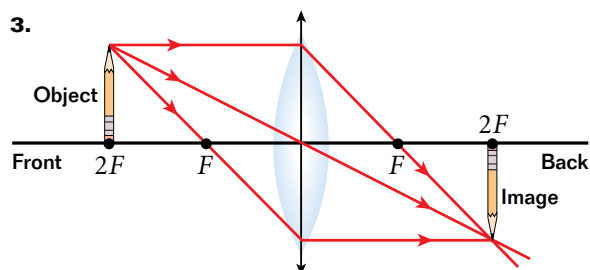
Configuration: object at infinity; point image at F

Applications: burning a hole with a magnifying glass



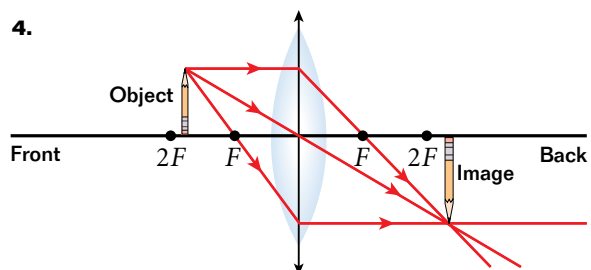
Configuration: object outside $2F$; real, smaller image between F and $2F$

Applications: lens of a camera, human eyeball lens, and objective lens of a refracting telescope



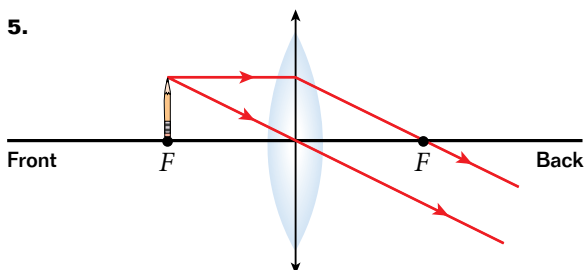
Configuration: object at $2F$; real image at $2F$ same size as object

Applications: inverting lens of a field telescope



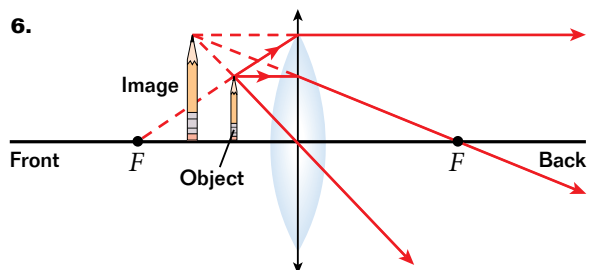
Configuration: object between F and $2F$; magnified real image outside $2F$

Applications: motion-picture or slide projector and objective lens in a compound microscope



Configuration: object at F ; image at infinity

Applications: lenses used in lighthouses and searchlights



Configuration: object inside F ; magnified virtual image on the same side of the lens as the object

Applications: magnifying with a magnifying glass; eyepiece lens of microscope, binoculars, and telescope