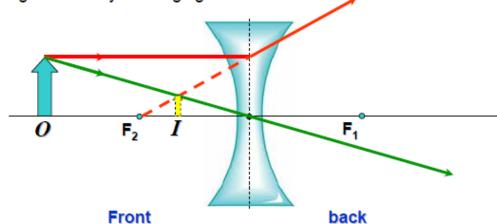




- Ray 1 Parallel to the principal axis, after refraction by the lens, passes through the focal point (focus) F₂ of a converging lens or appears to come from the focal point F₂ of a diverging lens.
- Ray 2 Passes through the optical centre of the lens is undeviated.
- Ray 3 Passes through the focus F₁ of a converging lens or appears to converge towards the focus F₁ of a diverging lens, after refraction by the lens the ray parallel to the principal axis.

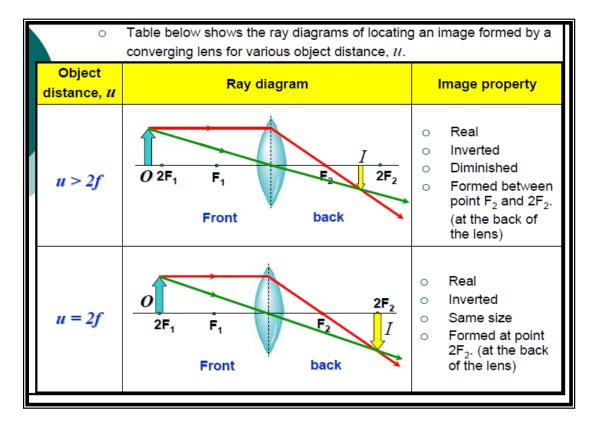
1.5.Images Formed by a diverging Lens

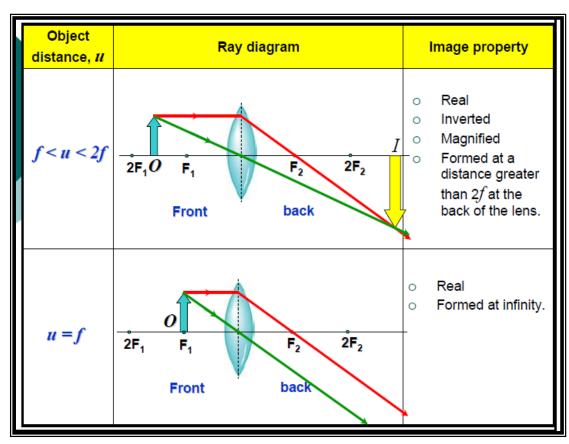
 Ray diagrams below showing the graphical method of locating an image formed by a diverging lens.

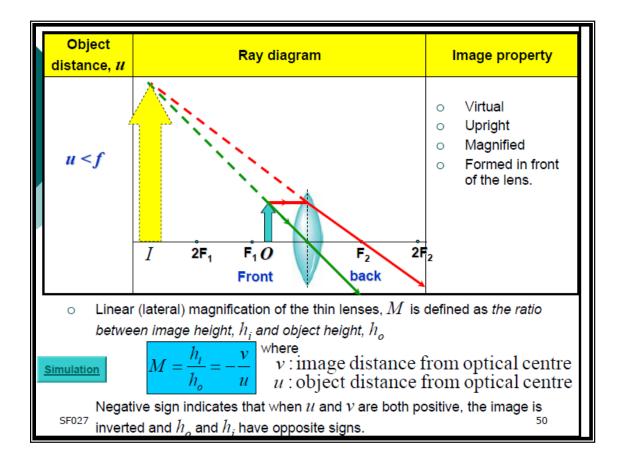


- Properties of image formed are
 - virtual
 - upright
 - diminished (smaller than the object)
 - formed in front of the lens.
- Object position → any position in front of the diverging lens.

1.6.Images Formed by a converging Lens







1.7. Thin Lens Formula And Lens Maker's Equation

Considering the ray diagram of refraction for 2 spherical surfaces as shown in figure below.

