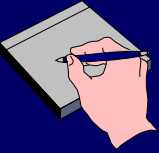
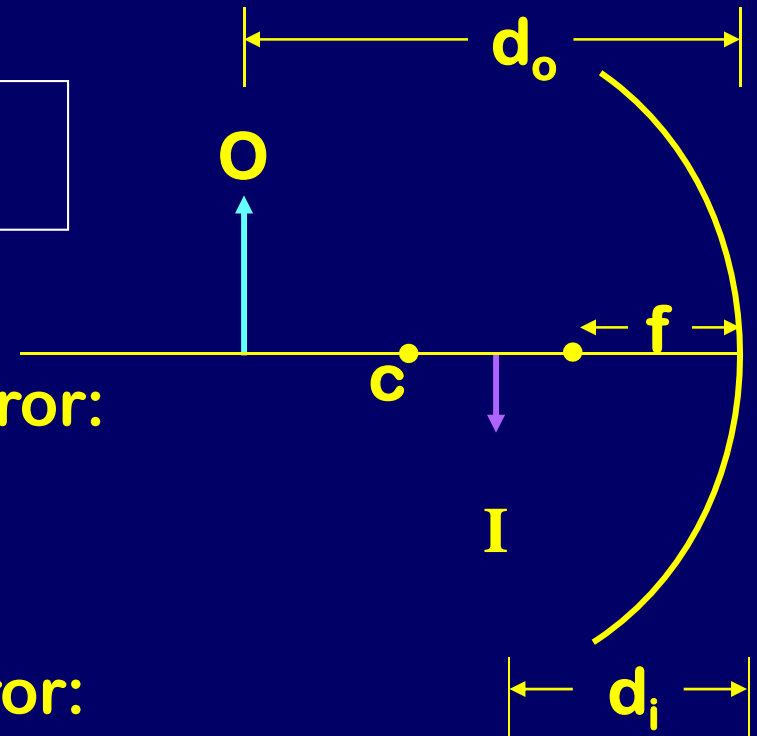


# Mirror Equation



$$\frac{1}{d_o} + \frac{1}{d_i} = \frac{1}{f}$$

Works for concave,  
convex, or flat



- **$d_o$  = distance object is from mirror:**
  - Positive: object in front of mirror
  - Negative: object behind mirror
- **$d_i$  = distance image is from mirror:**
  - Positive: real image (in front of mirror)
  - Negative: virtual image (behind mirror)
- **$f$  = focal length mirror:**
  - Positive: concave mirror **+R/2**
  - Negative: convex mirror **-R/2**