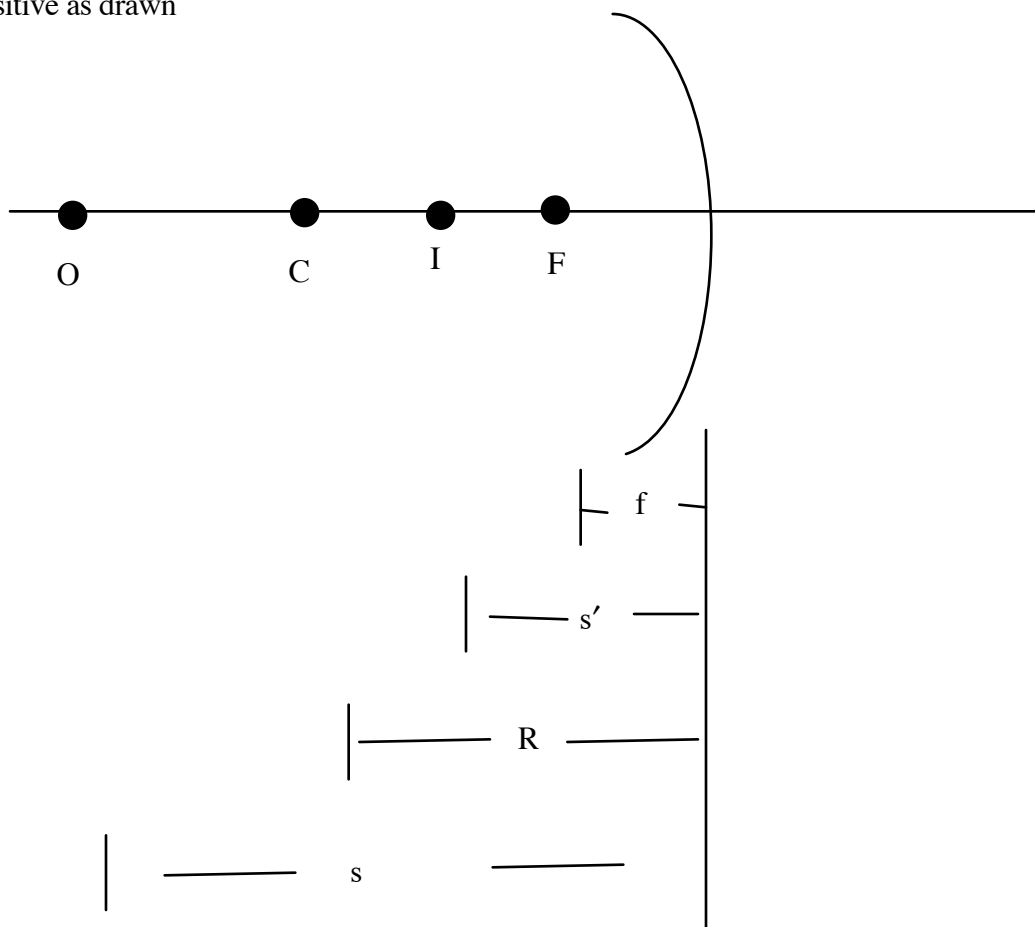


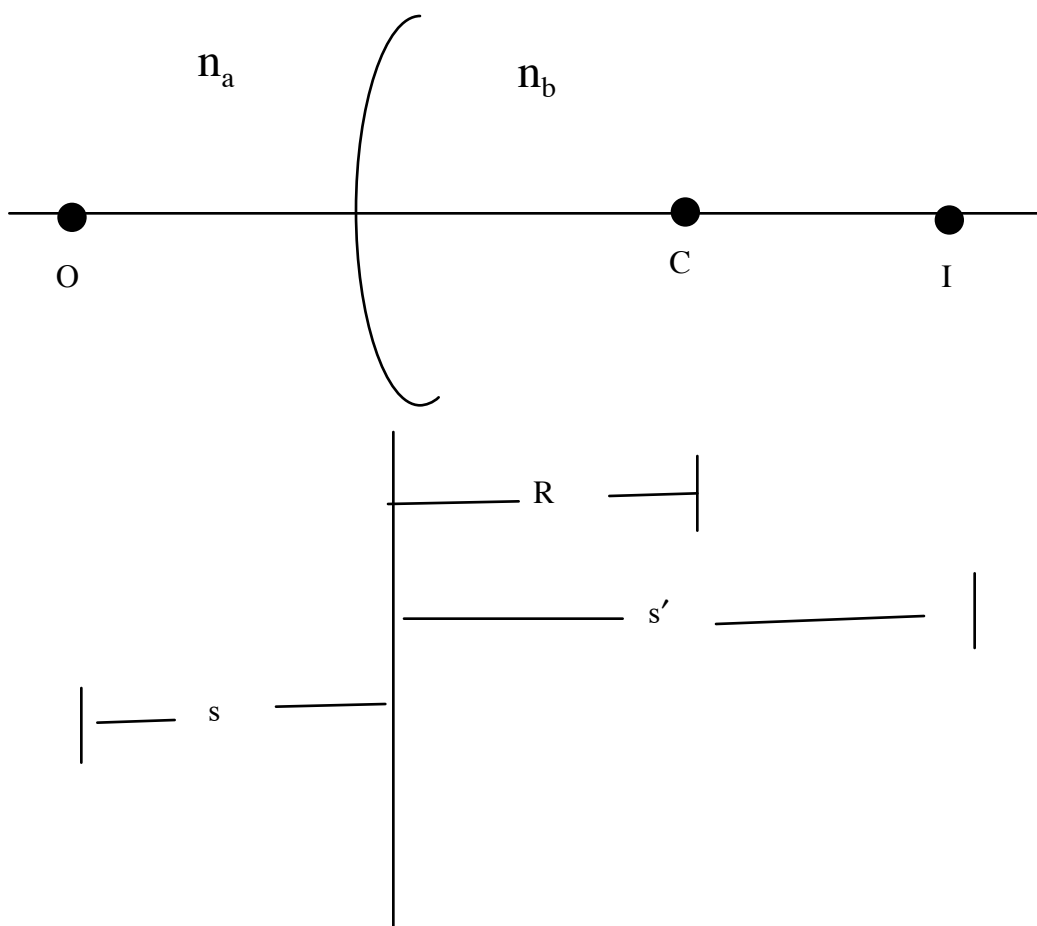
O object  
I image  
C center of curvature  
F focus

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Standard set up mirror  
All variables positive as drawn



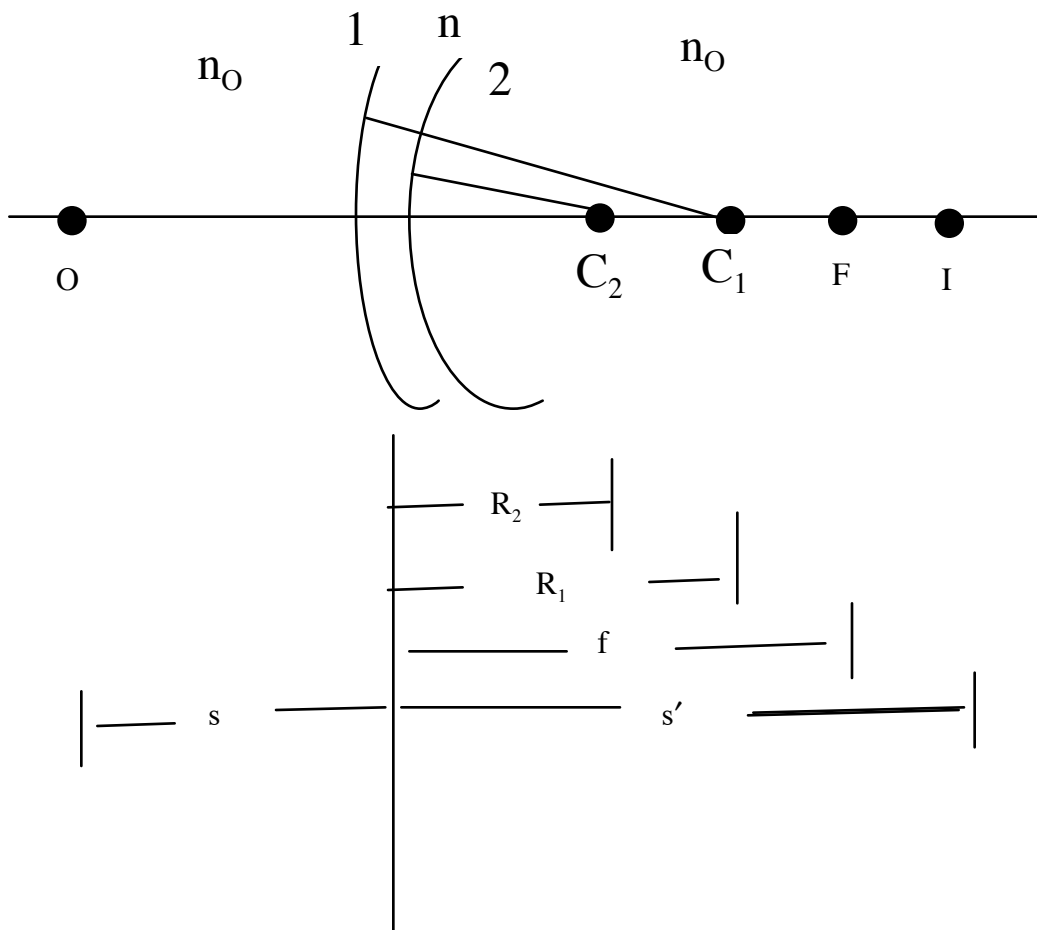
$$\frac{1}{s} + \frac{1}{s'} = \frac{1}{f} = \frac{2}{R}$$

Standard set up single surface refraction  
All variables positive as drawn



$$\frac{n_a}{s} + \frac{n_b}{s'} = \frac{n_b - n_a}{R}$$

Standard set up single thin lens  
 All variables positive as drawn



$$\frac{1}{s} + \frac{1}{s'} = \frac{1}{f} = \left( \frac{n}{n_o} - 1 \right) \left( \frac{1}{R_1} - \frac{1}{R_2} \right)$$