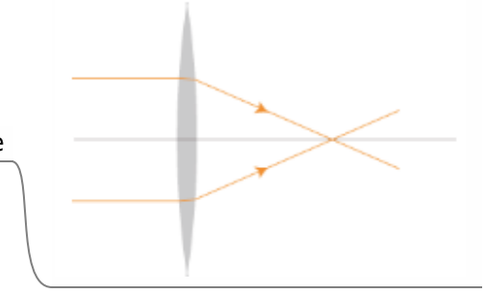
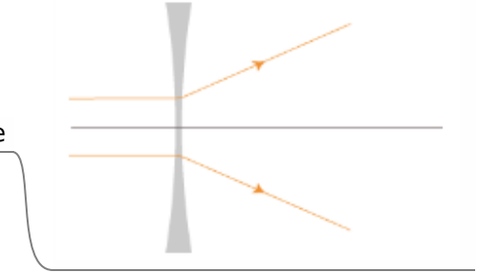
Lentille mince

Convergente



Divergente



Distance focale

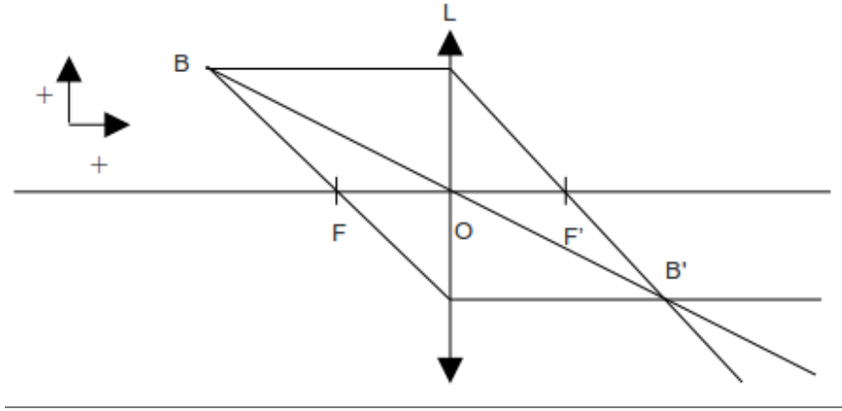
$$f' = \overline{OF'} = -\overline{OF}$$

Vergence

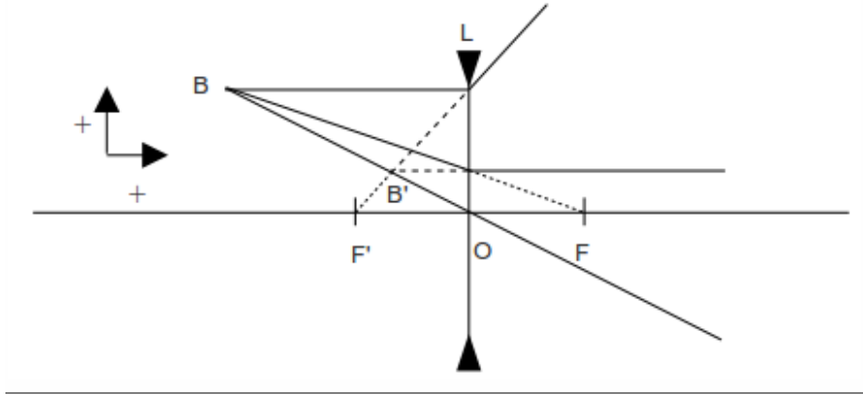
$$V = \frac{1}{f'}$$

Formation d'une image

Lentille convergente



Lentille divergente



Formules

Grandissement

$$\gamma = \frac{\overline{A'B'}}{\overline{AB}}$$

Formules de Descartes

$$\frac{1}{\overline{OA'}} - \frac{1}{\overline{OA}} = \frac{1}{\overline{OF'}}$$

$$\gamma = \frac{\overline{OA'}}{\overline{OA}}$$

Formules de Newton

$$\gamma = \frac{\overline{FO}}{\overline{FA}} = \frac{\overline{F'A'}}{\overline{F'O}}$$

$$\overline{FA} \times \overline{F'A'} = -\overline{F'O}^2$$