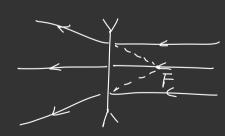


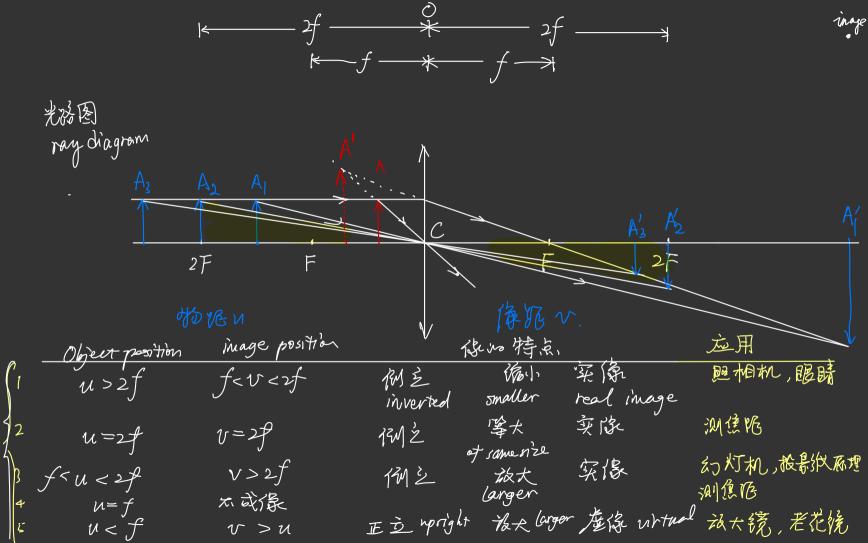
凸透镜一会聚

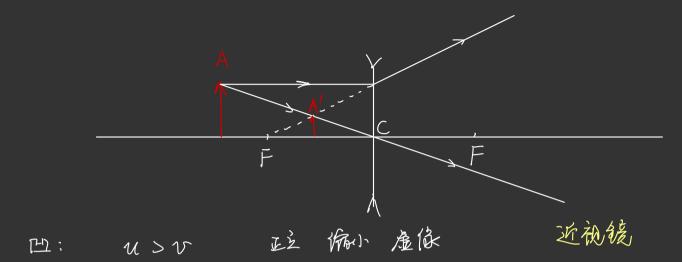
凹连统一发数

xis optical center focal length



diverging leaves





Proof of lens equation:
$$\frac{1}{n} + \frac{1}{v} = \frac{1}{f}$$

A m image distance

Proof: Object distance u

$$Q \triangle F_2 MC \triangle F_3 A'B'$$

$$\frac{BC}{AB} = \frac{D'C}{A'B'}$$

$$\frac{AC}{AB} = \frac{A'B'}{A'B'}$$

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

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

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

$$\frac{AB}{A'B'} = \frac{A'B'}{V-f}$$

$$\frac{AB}{A'B'} = \frac{A'B'}{V-f}$$

$$\frac{AB}{A'B'} = \frac{A'B'}{V-f}$$

$$\frac{AB}{A'B'} = \frac{A'B'}{V-f}$$

$$\frac{AB}{V-f} = \frac{A'B'}{V-f}$$

$$uv = uf + vf$$

$$uv = (u+v)f$$

$$\frac{1}{f} = \frac{u+v}{uv} = \frac{u}{uv} + \frac{v}{uv} = \frac{1}{v} + \frac{1}{u}$$

4>2f















