

2) $\frac{1}{a} - \frac{1}{a_1} = \frac{1}{f}$
 (magnifying glass)

3) Two rays of light
converge to a point:

$$\frac{1}{a} - \frac{1}{a_1} = \frac{1}{f}$$

a
 a_1
 f

}

- converging rays
 parallel rays
 virtual image

4)

Two rays of light
 diverge from a point
 image:

$$\frac{1}{a} + \frac{1}{a_1} = \frac{1}{f} = (n-1) \left(\frac{1}{r_1} + \frac{1}{r_2} \right)$$

r_1
 r_2

}

- rays from
 a point
 image