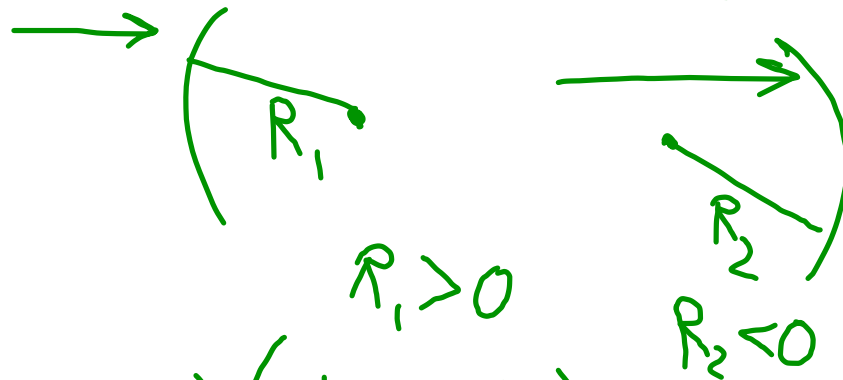


Case	AKA	real image?	Virtual image?	where $q < 0$?	orientation of real image	f
converging mirror	CONCAVE mirror	Y	Y	back	↓	> 0
diverging mirror	CONVEX mirror	N	Y	back	NA	< 0
converging lens	convex lens	Y	Y	front	↓	> 0
diverging lens	CONCAVE lens	N	Y	front	NA	< 0
flat mirror	plane mirror	N	Y	back	NA	∞

Lensmaker's Eq

$$R = \begin{cases} > 0 & \text{if center of curvature} \\ & \text{is on outgoing side} \\ < 0 & \text{otherwise} \end{cases}$$



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

incoming side = side from which light comes
outgoing side = side to which light goes