

## Geometric optics cont.

### Concave Mirror

Concave mirrors are mirrors that curve away from the object. Concave mirrors always produce the same kind of image.



Image Credit: GoodandBeautiful, CC BY-SA 2.0

Resulting image: virtual, upright, reduced

### Convex Mirror

Any surface converging rays because light rays will come together at the focus. There are a couple different configurations that are important.

#### Object Between Focus and Center

Resulting image: real, inverted, reduced

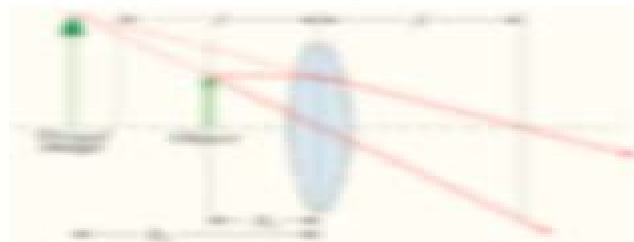


Image Credit: Jordon, CC BY-SA 4.0

### Convex Lens

Any surface is diverging rays because the light rays will diverge after passing through the lens. Diverging lenses always form a virtual, upright, diminished image.



Image Credit: GoodandBeautiful, CC BY-SA 2.0

#### Object Beyond Focus

Resulting image: virtual, upright, magnified

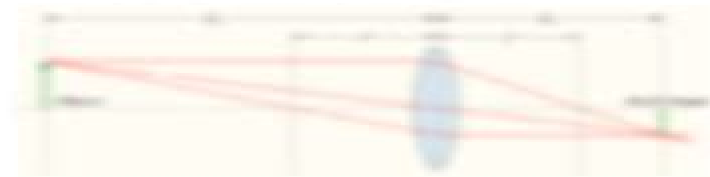


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### Snell's Equation

Note: The Snell's Equation shown here is actually an approximation that assumes the rays to the eye and to the eye are parallel.

Snell's law:  $n_1 \sin \theta_1 = n_2 \sin \theta_2$   
 Snell's equation:  $\frac{1}{f} = (n - 1) \left( \frac{1}{R_1} - \frac{1}{R_2} \right)$   
 $\frac{1}{f} = \frac{1}{d_o} + \frac{1}{d_i}$

$n$  = index of refraction

$f$  = focal length

$d_o$  = distance to object

$\theta$  = angle from normal

$R$  = radius of curvature

$d_i$  = distance to image

### Notes

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# Geometric Optics Study Guide And Review Answers

**Arshad Iqbal**



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