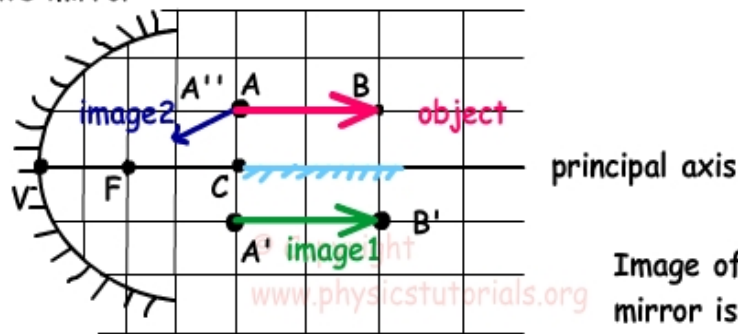


concave mirror



The image located at A'B' is object for concave mirror. We use mirror equations to find final location and height of the image.

$$\frac{1}{f} = \frac{1}{D_o} + \frac{1}{D_i}$$

We use this formula for points A' and B'

Since A' is located at the center of the mirror, its image also located at the center inverted and real.

$$\frac{1}{2} = \frac{1}{6} + \frac{1}{D_i}$$

$$D_i = 3$$

$$\frac{D_o}{D_i} = \frac{H_o}{H_i} = 2$$

So, height of the image is half of the real height. It is given in blue in the picture given above.