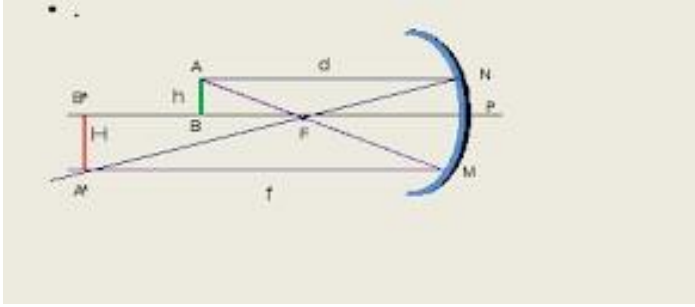


$d = 30 \text{ cm}$ ;  $R = 20 \text{ cm}$ .  $f = ?$



In this picture:  $BP = d$ ;  $B'P = f$ .

Write an equation of convex mirror:

$$\frac{1}{d} + \frac{1}{f} = \frac{2}{R}$$

From this:  $f = \frac{R*d}{2d-R} = \frac{20*30}{2*30-20} = \frac{600}{40} = 15 \text{ cm}$ .

Answer:  $f = 15 \text{ cm}$ .

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