



$$R^2 = d^2 + h^2$$

$$\Rightarrow d^2 + 2dd' + \cancel{d'^2} = \cancel{d^2} + h^2$$

$$d + d' = R$$

$$\hookrightarrow 2dd' = \underline{h^2 - d^2}$$

$$d' = \frac{h^2 - d^2}{2d}$$

Radius

$$R = d + d'$$