



$$\frac{x}{y} = \frac{h}{D+d}$$

$$d^2 = x^2 + y^2$$

$$y = \sqrt{d^2 - x^2}$$

$$\frac{x}{\sqrt{d^2 - x^2}} = \frac{h}{D+d}$$

$$\frac{x^2}{d^2 - x^2} = \frac{h^2}{(D+d)^2}$$

$$x^2(D+d)^2 = h^2(d^2 - x^2)$$

$$x^2(D+d)^2 + h^2x^2 = h^2d^2$$

$$x^2[(D+d)^2 + h^2] = h^2d^2$$

$$x^2 = \frac{h^2d^2}{(D+d)^2 + h^2}$$

$$x = \frac{h \cdot d}{\sqrt{(D+d)^2 + h^2}}$$