



deg \rightarrow rad:

$$\tan \theta_1 = \frac{z}{\sqrt{(x+D)^2 + y^2}}, \quad \tan \theta_2 = \frac{z}{\sqrt{x^2 + y^2}}, \quad \tan \theta_3 = \frac{z}{\sqrt{(x-D)^2 + y^2}}$$

$$\alpha^2 = \frac{z^2}{(x+D)^2 + y^2}, \quad \beta^2 = \frac{z^2}{x^2 + y^2}, \quad \gamma^2 = \frac{z^2}{(x-D)^2 + y^2}$$

$$\frac{1}{\alpha^2} - \frac{1}{\beta^2} = \frac{1}{z^2} (D^2 + 2Dx), \quad \frac{1}{\gamma^2} - \frac{1}{\beta^2} = \frac{1}{z^2} (D^2 - 2Dx).$$

$$\frac{1}{\alpha^2} - 2\frac{1}{\beta^2} + \frac{1}{\gamma^2} = \frac{1}{z^2} \cdot 2D^2.$$

$$z = \frac{D \times \sqrt{2}}{\sqrt{\frac{1}{\alpha^2} + \frac{1}{\gamma^2} - 2/\beta^2}} = D \times \beta \sqrt{\frac{2}{\beta^2 \gamma^2 + \dots}}$$