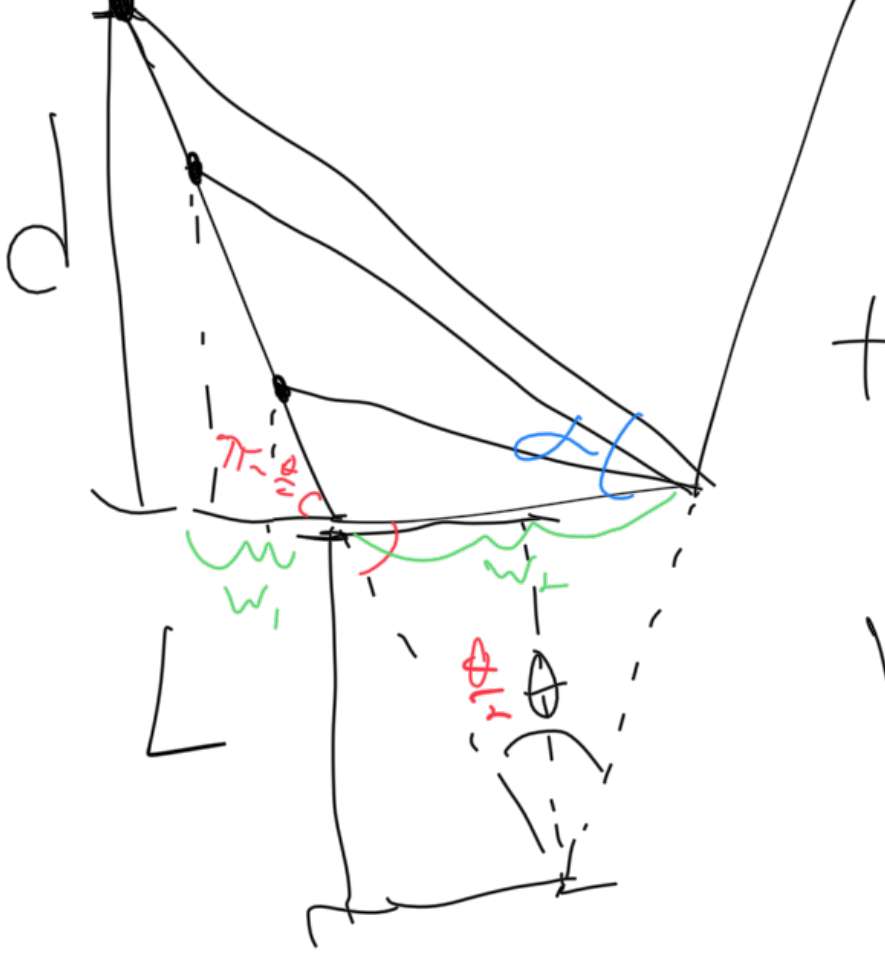

$$\tan(\alpha) = \frac{d}{W_1 + W_2}$$

$$W_1 = \frac{d}{\tan\left(\pi - \frac{\theta}{2}\right)}$$

$$\tan\left(\frac{\theta}{2}\right) = \frac{\left(\frac{W_2}{2}\right)}{L}$$

$$2 \cdot L \cdot \tan\left(\frac{\theta}{2}\right) = W_2$$

$$\tan(\alpha) = \frac{d}{\frac{d}{\tan\left(\pi - \frac{\theta}{2}\right)} + 2L \cdot \tan\left(\frac{\theta}{2}\right)}$$

$$\lim_{d \to \infty} \frac{d}{\frac{d}{\tan\left(\pi - \frac{\theta}{2}\right)} + 2L \cdot \tan\left(\frac{\theta}{2}\right)} = -\tan\left(\frac{\theta}{2}\right) = \tan\left(-\frac{\theta}{2}\right)$$

at infinity, $\alpha = -\frac{\theta}{2} = \pi - \frac{\theta}{2}$