$$L = \frac{\Delta}{360} \cdot 2\pi R$$

$$100 = \frac{D_A}{360} \cdot 2\pi R \qquad D_A = \frac{18000}{\pi \cdot R}$$

$$T = R \cdot \tan\left(\frac{\Delta}{2}\right) \qquad \tan\left(\frac{\Delta}{2}\right) = \frac{T}{R} \qquad R = \frac{T}{\tan\left(\frac{\Delta}{2}\right)}$$

$$C = 2 \cdot R \cdot \sin\left(\frac{\Delta}{2}\right) \qquad \sin\left(\frac{\Delta}{2}\right) = \frac{C}{2R} \qquad R = \frac{C}{2 \cdot \sin\left(\frac{\Delta}{2}\right)}$$

$$100 = 2 \cdot R \cdot \sin\left(\frac{D_C}{2}\right) \qquad D_C = 2 \cdot a\sin\left(\frac{50}{R}\right)$$

$$M = R\left[1 - \cos\left(\frac{\Delta}{2}\right)\right] \qquad \cos\left(\frac{\Delta}{2}\right) = \frac{R - M}{R} \qquad R = \frac{M}{\left[1 - \cos\frac{\Delta}{2}\right]}$$

$$d_f = \frac{90}{\pi R} \qquad d_f = \frac{D_A}{200} \qquad d_f = \frac{\Delta}{2 \cdot L}$$

$$E = R\left[\frac{1}{\cos\left(\frac{\Delta}{2}\right)} - 1\right] \qquad \cos\left(\frac{\Delta}{2}\right) = \frac{R}{R + E} \qquad R = \frac{E}{\left[\frac{1}{\cos\left(\frac{\Delta}{2}\right)} - 1\right]}$$

$$\cos\left(\frac{\Delta}{2}\right) = \frac{M}{E} \qquad \tan\left(\frac{\Delta}{4}\right) = \frac{M}{\left(\frac{C}{2}\right)} = \frac{2M}{C}$$

$$\frac{E}{\sin\left(\frac{\Delta}{4}\right)} = \frac{T}{\sin\left(90 + \frac{\Delta}{4}\right)} \qquad \frac{E}{T} = \frac{\sin\left(\frac{\Delta}{4}\right)}{\sin\left(90 + \frac{\Delta}{4}\right)} \qquad \frac{E}{T} = \frac{\sin\left(\frac{\Delta}{4}\right)}{\cos\left(\frac{\Delta}{4}\right)} = \tan\left(\frac{\Delta}{4}\right)$$