

Fitting Curve to 3 Tangents

lay - out of three tangents, required to fit curve of radius R

$$T_1 = R \cdot \tan \alpha/2$$

$$T_2 = R \cdot \tan \beta/2$$

$$T_1 + T_2 = R (\tan \alpha/2 + \tan \beta/2)$$

$$R = (T_1 + T_2) / (\tan \alpha/2 + \tan \beta/2)$$

