

Decide point location (PC, PI, PT)
$\Delta$ is known.
$R$ is chosen by engineers.

$$
\begin{aligned}
& \frac{L}{2 \pi R}=\frac{\Delta}{360} \Rightarrow L=\frac{\Delta R \cdot 2 \pi}{360}=\frac{\Delta R}{57.296} \\
& T=R \tan \frac{\Delta}{2} \\
& E=\frac{R}{\cos \frac{\Delta}{2}}-R=R\left(\sec \frac{\Delta}{2}-1\right) \\
& M=R\left(1-\cos \frac{\Delta}{2}\right) \\
& C=2 R \sin \frac{\Delta}{2}
\end{aligned}
$$

US customary has a variable $D$ - degree of curve

$$
\frac{D}{360}=\frac{100}{2 \pi R} \Rightarrow D=\frac{5729.58}{R}
$$

