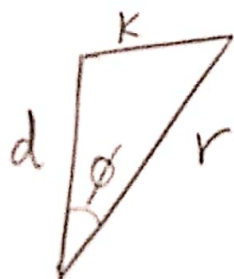


$$K = R\sqrt{2(1 - \cos\theta)}$$



$$r = \sqrt{d^2 + 2R^2(1 - \cos\theta)}$$

$$\cos\phi = \frac{d}{r} = \frac{d}{\sqrt{d^2 + 2R^2(1 - \cos\theta)}}$$