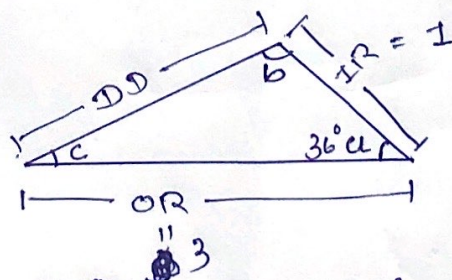


=> here Arc of Inner & outer circle is 360° so for Five pointed star if we divide 360 into five part we get angle 72° , therefore one angle $a = 36^\circ$



From Law of cosine for triangles we can find other parameters.

$$OD^2 = OR^2 + IR^2 - 2(OR)(IR) \cdot \cos(u)$$

Same as length we can find angle,

$C \neq b$ also,

$$IR^2 = OD^2 + OR^2 - 2(OD)(OR) \cos(c)$$

$$C = \cos^{-1} \left(\frac{OD^2 + OR^2 - IR^2}{2(OD)(OR)} \right)$$

$$b = \cos^{-1} \left(\frac{OD^2 + IR^2 - OR^2}{2(OD)(IR)} \right)$$

Inner
~~outer~~ Angle = $2 \times C$

outer Angle = $2\pi - b$

