



제2코사인

$$\textcircled{1} \quad c^2 = a^2 + b^2 - 2 \cdot ab \cdot \cos C$$

피타고라스

$$\textcircled{2} \quad d = \sqrt{(a \cdot \sin C)^2 + ((b+2r) - a \cdot \cos C)^2}$$

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$$\textcircled{3} \quad (b+2r)^2 = a^2 + d^2 - 2 \cdot a \cdot d \cdot \cos \theta''$$

$$\textcircled{4} \quad \tan \theta' = \frac{y}{x}$$

$$\textcircled{5} \quad \theta = \theta' + \theta''$$