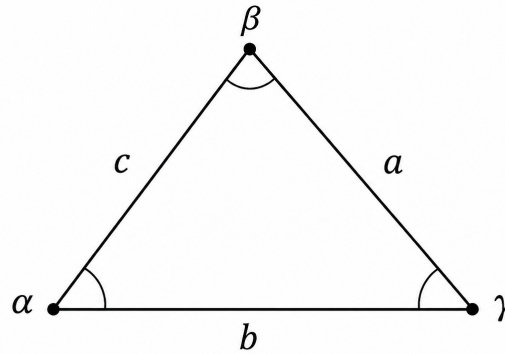
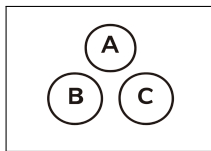


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Laws of Triangles Law of Tangents

A



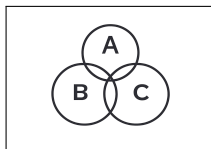
Opposite $\alpha \rightarrow$ side a
Opposite $\beta \rightarrow$ side b
Opposite $\gamma \rightarrow$ side c

$$\alpha = 95^\circ$$

$$\beta = 35^\circ$$

$$(a - b)/(a + b) = \tan(30^\circ)/\tan(65^\circ)$$

$$(a - b)/(a + b) = 0.57742.1445 \approx 0.2693$$



$$(a - b)/(a + b) = \tan(1/2(\alpha - \beta))/\tan(1/2(\alpha + \beta))$$

$$\alpha = 110^\circ$$

$$\beta = 40^\circ$$

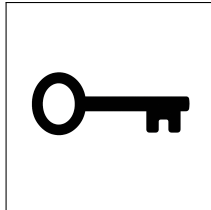
$$(a - b)/(a + b) = ?$$

?

46

Laws of Triangles Law of Tangents

A



$$\alpha = 110^\circ$$

$$\beta = 40^\circ$$

$$(a - b)/(a + b) = \tan(35^\circ)/\tan(75^\circ)$$

$$(a - b)/(a + b) = 0.7002/3.7321 \approx 0.1876$$