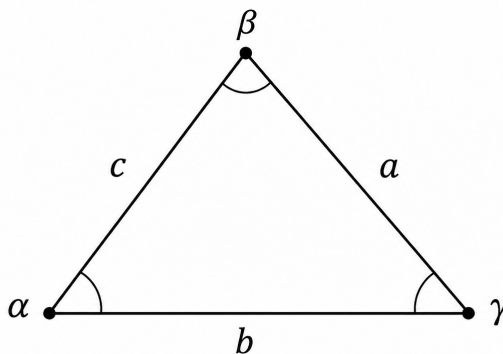
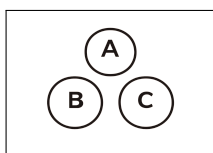




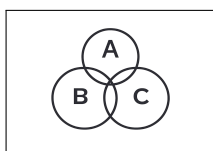
Opposite $\alpha \rightarrow$ side a
 Opposite $\beta \rightarrow$ side b
 Opposite $\gamma \rightarrow$ side c

$$\beta = 80^\circ$$

$$\gamma = 40^\circ$$

$$(b - c)/(b + c) = \tan(20^\circ)/\tan(60^\circ)$$

$$(b - c)/(b + c) = 0.3640/1.7321 \approx 0.2101$$



$$(b - c)/(b + c) = \tan(1/2(\beta - \gamma))/\tan(1/2(\beta + \gamma))$$

$$\beta = 75^\circ$$

$$\gamma = 15^\circ$$

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

?

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Laws of Triangles
Law of Tangents

B



$$\beta = 75^\circ$$

$$\gamma = 15^\circ$$

$$(b - c)/(b + c) = \tan(1/2(\beta - \gamma))/\tan(1/2(\beta + \gamma))$$

$$(b - c)/(b + c) = \tan(30^\circ)/\tan(45^\circ)$$

$$(b - c)/(b + c) = (1/\sqrt{3})/1$$

$$(b - c)/(b + c) = 1/\sqrt{3}$$