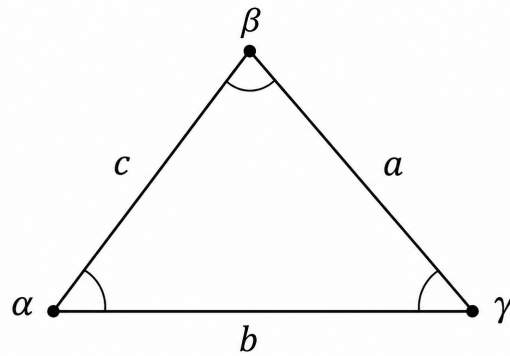
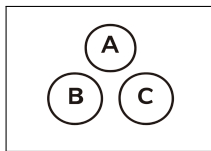




Opposite $\alpha \rightarrow$ side a
 Opposite $\beta \rightarrow$ side b
 Opposite $\gamma \rightarrow$ side c

$$\alpha = 60^\circ$$

$$\beta = 45^\circ$$

$$a = 8$$

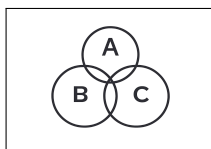
$$\sin(60^\circ)/8 = \sin(45^\circ)/b$$

$$(\sqrt{3}/2)/8 = (\sqrt{2}/2)/b$$

$$b \times \sqrt{3}/2 = 8 \times \sqrt{2}/2$$

$$b = 8\sqrt{2}/\sqrt{3}$$

$$b = 8\sqrt{6}/3$$



$$\sin(\alpha)/a = \sin(\beta)/b = \sin(\gamma)/c$$

$$\alpha = 30^\circ$$

$$\beta = 45^\circ$$

$$a = 10$$

$$b = ?$$

?



$$\alpha = 30^\circ$$

$$\beta = 45^\circ$$

$$a = 10$$

$$\sin(\alpha)/a = \sin(\beta)/b$$

$$\sin(30^\circ)/10 = \sin(45^\circ)/b$$

$$(1/2)/10 = (\sqrt{2}/2)/b$$

$$1/20 = \sqrt{2}/(2b)$$

$$b = 20(\sqrt{2}/2)$$

$$b = 10\sqrt{2}$$