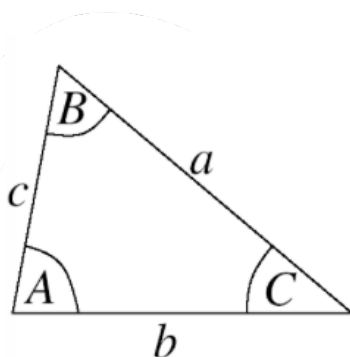


1. The Sine rule

$$\text{To find a SIDE: } \frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$

$$\text{To find an ANGLE: } \frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$



NOTE: the most important thing for trigonometric rule is to always use sides opposite angles

Solve the following trigonometric equations

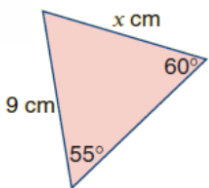
a) $\frac{\sin \theta^\circ}{6} = \frac{\sin 35^\circ}{7}$

$\theta = 29^\circ 27'$

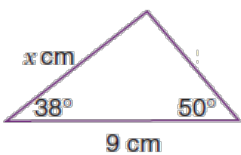
b) $\frac{\sin 32^\circ}{x} = \frac{\sin 38^\circ}{12}$

$x = 10.33$

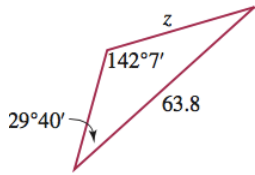
Find the missing sides for the following triangles



$x = 8.51$

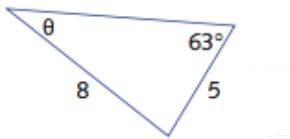


$x = 6.90$

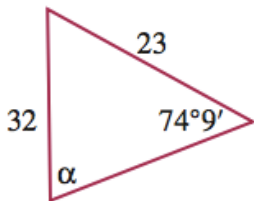


$z = 51.43$

Find the missing angles for the following triangles



$\theta = 33^\circ 50'$



$\alpha = 43^\circ 45'$

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