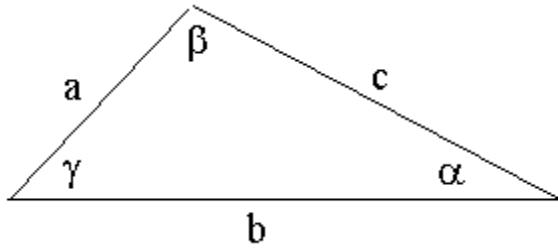


Triangle Trigonometry: The Law of Sines & The Law of Cosines

Give sides lengths to the nearest tenth and angles to the nearest tenth of a degree.



[1] $\alpha = 37^\circ$, $\beta = 91^\circ$, $a=15$. Find b .

[2] $a=9$, $b=40$, $c=39$. Find α .

[3] $\alpha = 28^\circ$, $\gamma = 63^\circ$, $b=12$. Find c .

[4] $\gamma = 79^\circ$, $a=11$, $c=9$. Find α .

[5] $\beta = 99^\circ$, $\gamma = 58^\circ$, $b=20$. Find c .

[6] $b=21$, $\alpha = 25^\circ$, $c=13$. Find a .

[7] $a=6$, $b=15$, $c=18$. Find β .

[8] $\beta = 89^\circ$, $\gamma = 57^\circ$, $a=3$. Find b .

[9] $\gamma = 39^\circ$, $a=11$, $c=13$. Find α .

[10] $\gamma = 80^\circ$, $a=10$, $c=4$. Find α .

[11] $a=24$, $\beta = 115^\circ$, $c=44$. Find b .