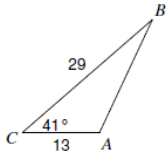


Law of Cosines ... Set 3

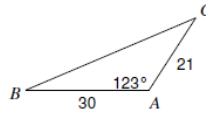
The Law of Cosines

Find each measurement indicated. Round your answers to the nearest tenth.

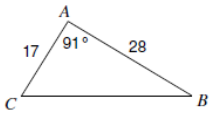
1) Find AB



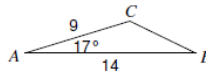
2) Find BC



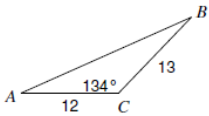
3) Find BC



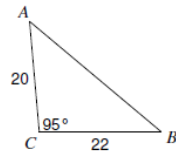
4) Find BC



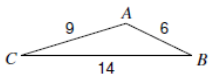
5) Find AB



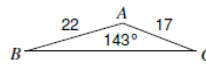
6) Find AB



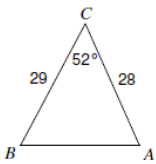
7) Find $m\angle A$



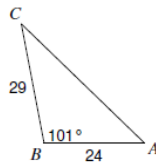
8) Find $m\angle B$



9) Find $m\angle A$



10) Find $m\angle C$

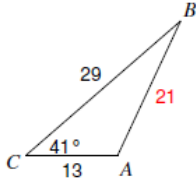


Law of Cosines ... Set 3

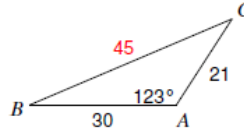
Answers

Find each measurement indicated. Round your answers to the nearest tenth.

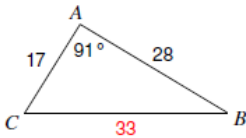
1) Find AB



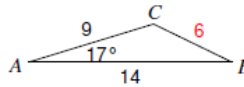
2) Find BC



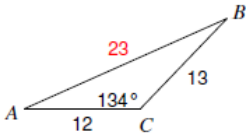
3) Find BC



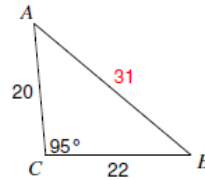
4) Find BC



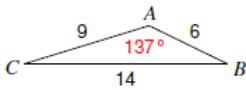
5) Find AB



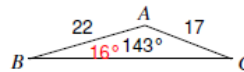
6) Find AB



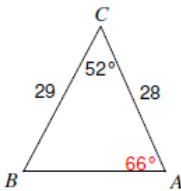
7) Find $m\angle A$



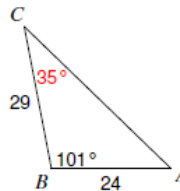
8) Find $m\angle B$



9) Find $m\angle A$

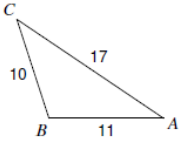


10) Find $m\angle C$

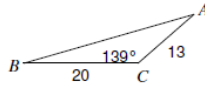


Law of Cosines ... Set 3

11) Find $m\angle A$

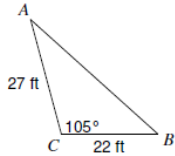


12) Find $m\angle A$

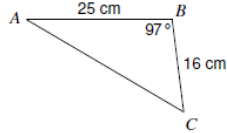


Solve each triangle. Round your answers to the nearest tenth.

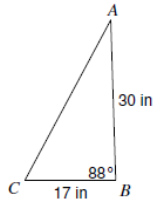
13)



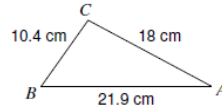
14)



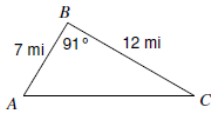
15)



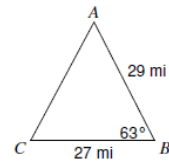
16)



17)



18)



19) In $\triangle ABC$, $a = 14$ cm, $b = 9$ cm, $c = 6$ cm

20) In $\triangle XYZ$, $m\angle X = 138^\circ$, $y = 15$ in, $z = 25$ in

21) In $\triangle QRP$, $q = 12$ in, $p = 28$ in, $r = 18$ in

22) In $\triangle QRP$, $p = 28$ km, $q = 17$ km, $r = 15$ km

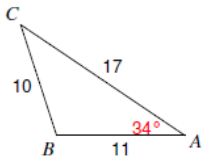
23) In $\triangle DEF$, $e = 16$ yd, $d = 12$ yd, $f = 17$ yd

24) In $\triangle RPQ$, $p = 18$ mi, $m\angle R = 17^\circ$, $q = 28$ mi

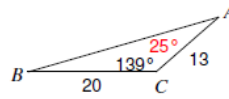
Law of Cosines ... Set 3

Answers

11) Find $m\angle A$

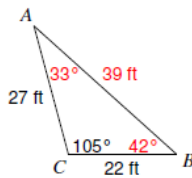


12) Find $m\angle A$

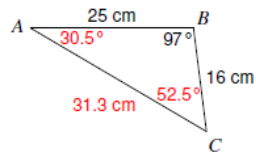


Solve each triangle. Round your answers to the nearest tenth.

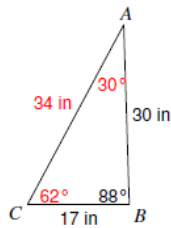
13)



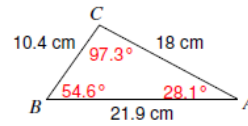
14)



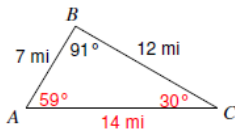
15)



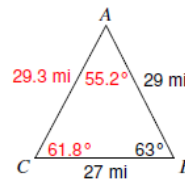
16)



17)



18)



19) In $\triangle ABC$, $a = 14$ cm, $b = 9$ cm, $c = 6$ cm

$$m\angle A = 137^\circ, m\angle B = 26^\circ, m\angle C = 17^\circ$$

20) In $\triangle XYZ$, $m\angle X = 138^\circ$, $y = 15$ in, $z = 25$ in

$$m\angle Y = 15.5^\circ, m\angle Z = 26.5^\circ, x = 37.5$$
 in

21) In $\triangle QRP$, $q = 12$ in, $p = 28$ in, $r = 18$ in

$$m\angle Q = 17^\circ, m\angle R = 26^\circ, m\angle P = 137^\circ$$

22) In $\triangle QRP$, $p = 28$ km, $q = 17$ km, $r = 15$ km

$$m\angle Q = 31^\circ, m\angle R = 27^\circ, m\angle P = 122^\circ$$

23) In $\triangle DEF$, $e = 16$ yd, $d = 12$ yd, $f = 17$ yd

$$m\angle D = 42.5^\circ, m\angle E = 64.3^\circ, m\angle F = 73.2^\circ$$

24) In $\triangle RPQ$, $p = 18$ mi, $m\angle R = 17^\circ$, $q = 28$ mi

$$m\angle P = 26^\circ, m\angle Q = 137^\circ, r = 12$$
 mi