

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

11) $m\angle A = 70^\circ$, $c = 26$, $a = 25$

$m\angle B = 32.2^\circ$, $m\angle C = 77.8^\circ$, $b = 14.2$

Or $m\angle B = 7.8^\circ$, $m\angle C = 102.2^\circ$, $b = 3.6$

12) $m\angle B = 45^\circ$, $a = 28$, $b = 27$

$m\angle C = 87.8^\circ$, $m\angle A = 47.2^\circ$, $c = 38.2$

Or $m\angle C = 2.2^\circ$, $m\angle A = 132.8^\circ$, $c = 1.5$

13) $m\angle C = 145^\circ$, $b = 7$, $c = 33$

$m\angle A = 28^\circ$, $m\angle B = 7^\circ$, $a = 27$

14) $m\angle B = 73^\circ$, $a = 7$, $b = 5$

Not a triangle

15) $m\angle B = 117^\circ$, $a = 16$, $b = 38$

$m\angle C = 41^\circ$, $m\angle A = 22^\circ$, $c = 28$

16) $m\angle B = 84^\circ$, $a = 18$, $b = 9$

Not a triangle

17) $m\angle B = 105^\circ$, $b = 23$, $a = 14$

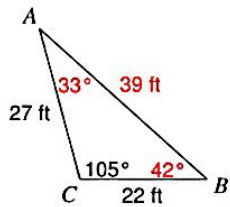
$m\angle C = 39^\circ$, $m\angle A = 36^\circ$, $c = 15$

18) $m\angle C = 13^\circ$, $m\angle A = 22^\circ$, $c = 9$

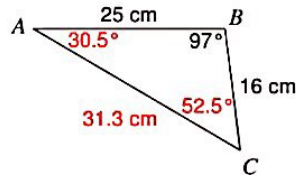
$m\angle B = 145^\circ$, $a = 15$, $b = 22.9$

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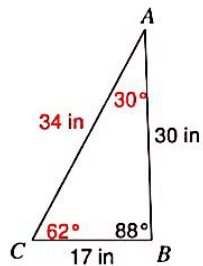
13)



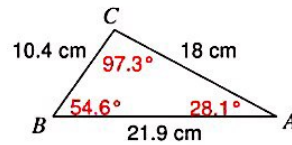
14)



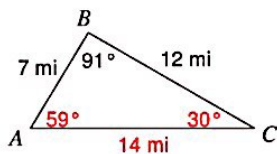
15)



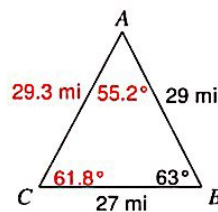
16)



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

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