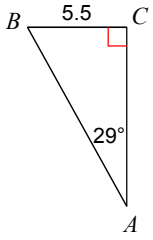


Week 8 Practice

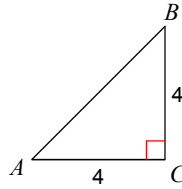
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Solve each triangle. Round answers to the nearest tenth. Tip: Use SOHCAHTOA and/or PT

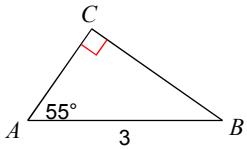
1)



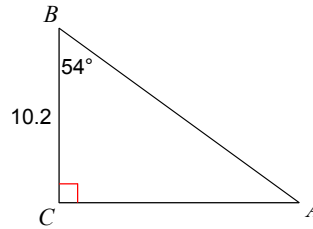
2)



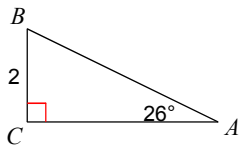
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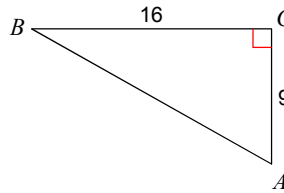
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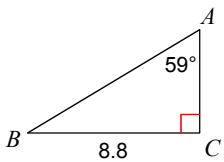
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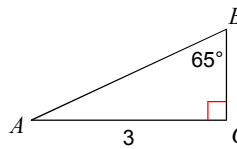
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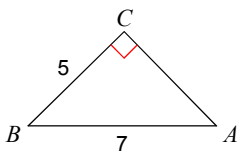
7)



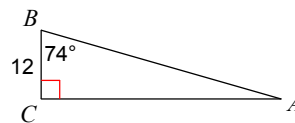
8)



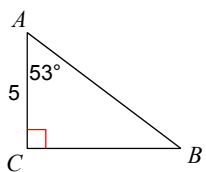
9)



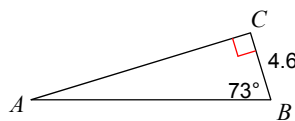
10)



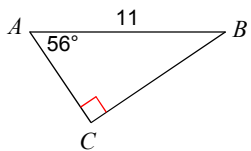
11)



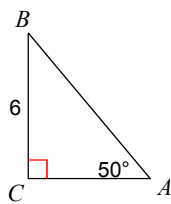
12)



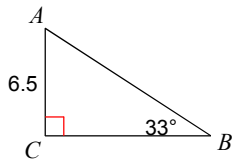
13)



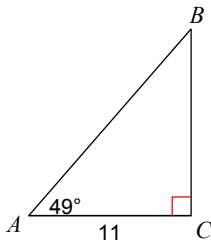
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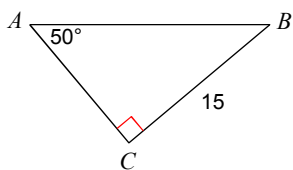
15)



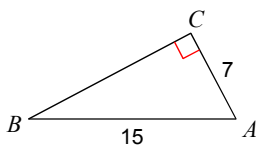
16)



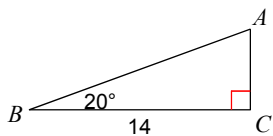
17)



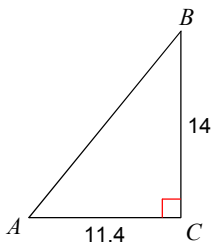
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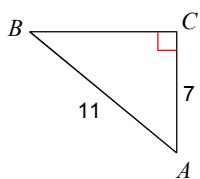
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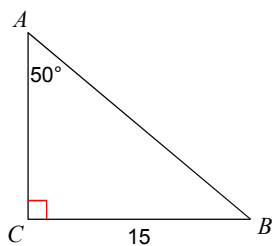
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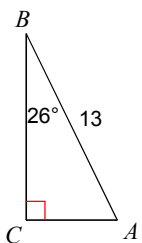
21)



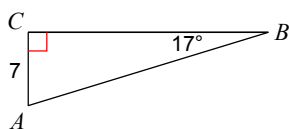
22)



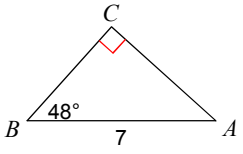
23)



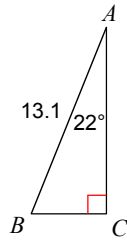
24)



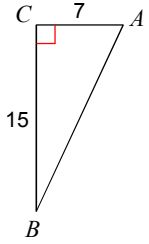
25)



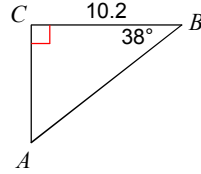
26)



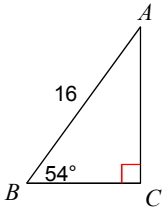
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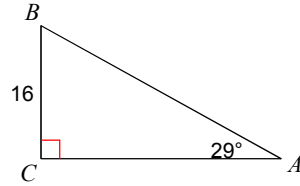
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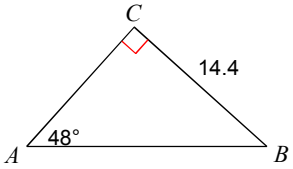
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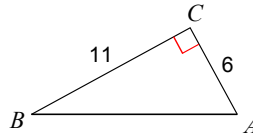
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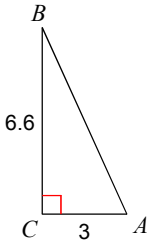
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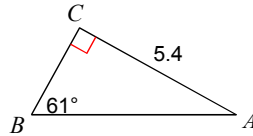
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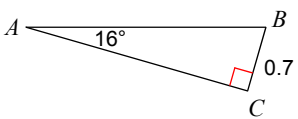
33)



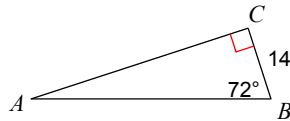
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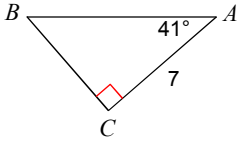
35)



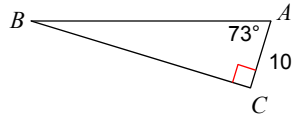
36)



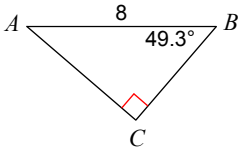
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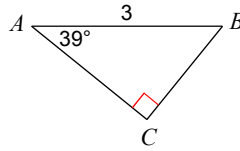
38)



39)

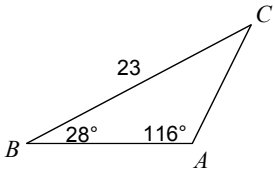


40)

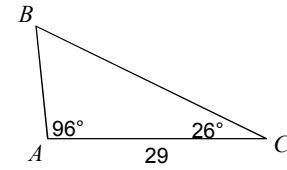


Solve each triangle. Round your answers to the nearest tenth. Tip: use the LOS

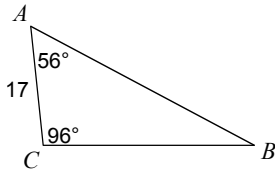
41)



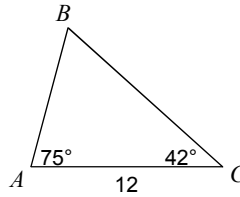
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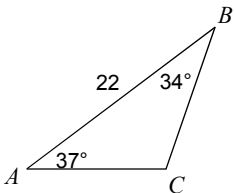
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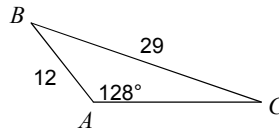
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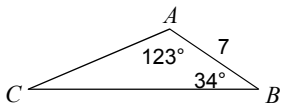
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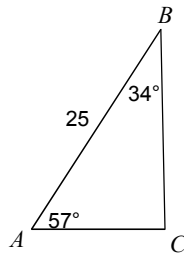
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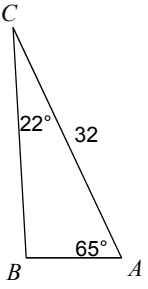
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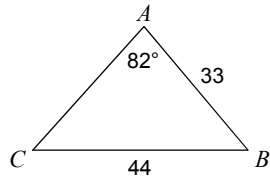
48)



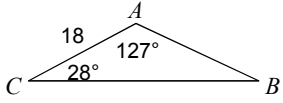
49)



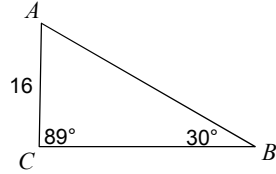
50)



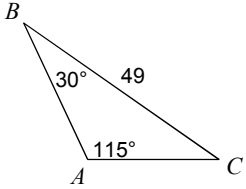
51)



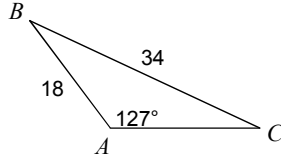
52)



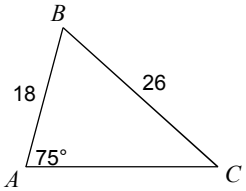
53)



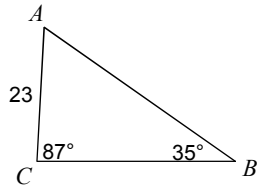
54)



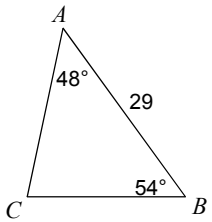
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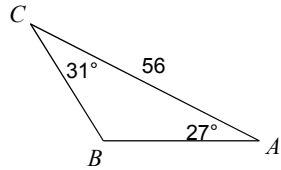
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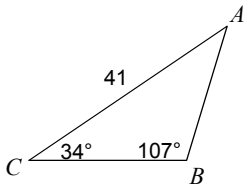
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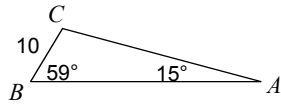
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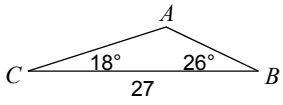
59)



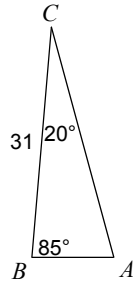
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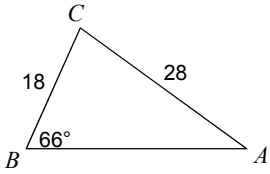
61)



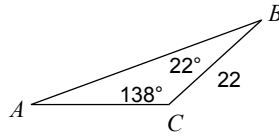
62)



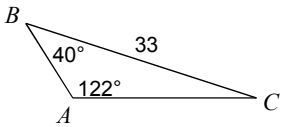
63)



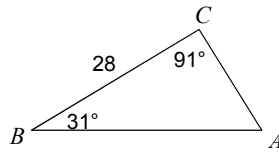
64)



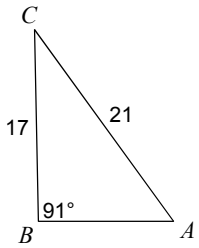
65)



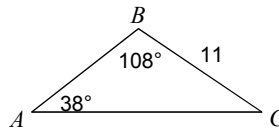
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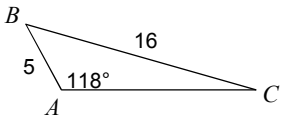
67)



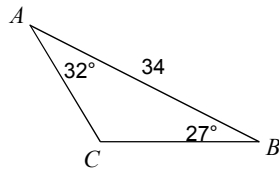
68)



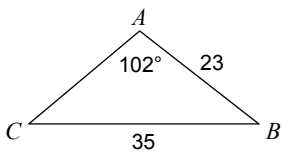
69)



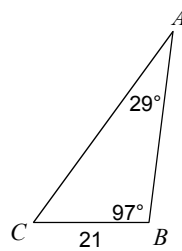
70)



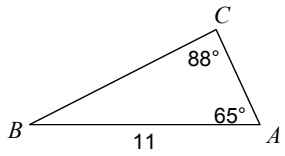
71)



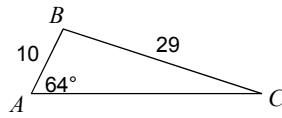
72)



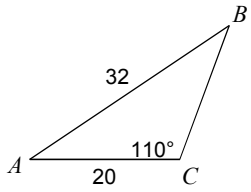
73)



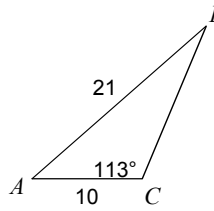
74)



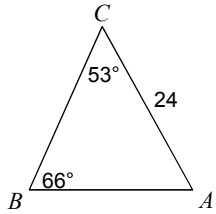
75)



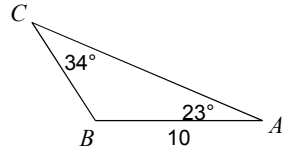
76)



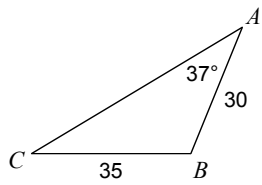
77)



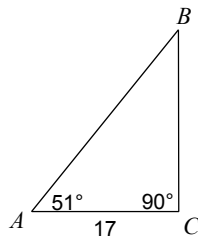
78)



79)

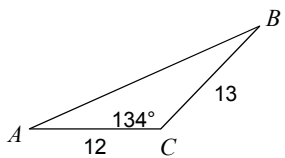


80)

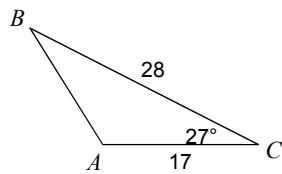


Solve each triangle. Round your answers to the nearest tenth. Tip: use the LOC

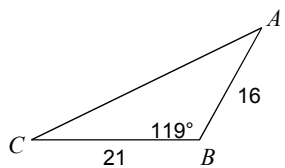
81)



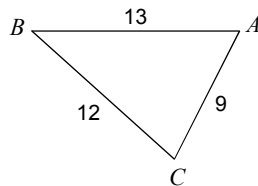
82)



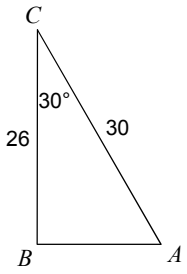
83)



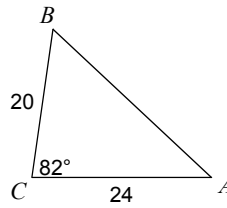
84)



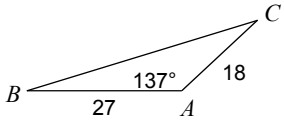
85)



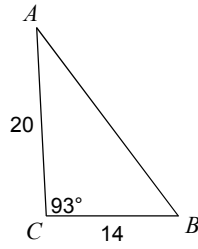
86)



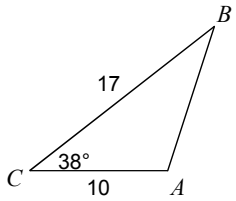
87)



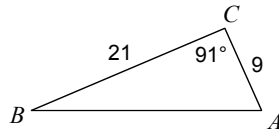
88)



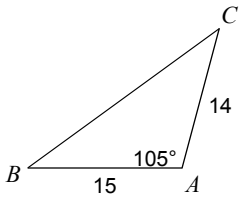
89)



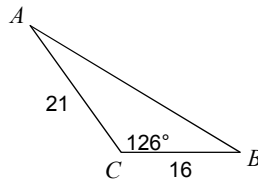
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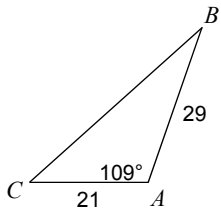
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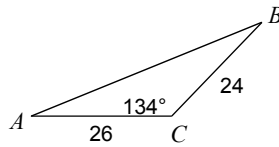
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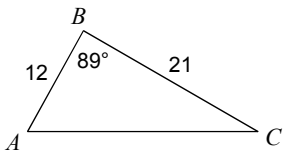
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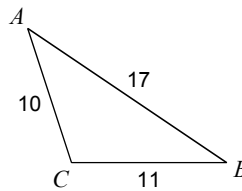
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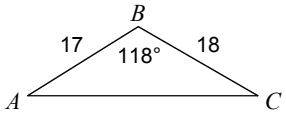
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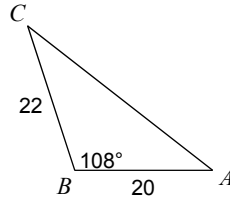
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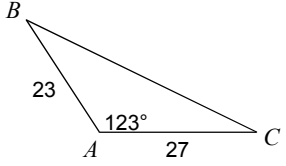
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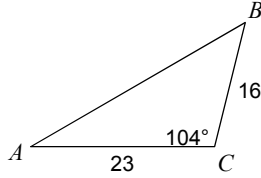
98)



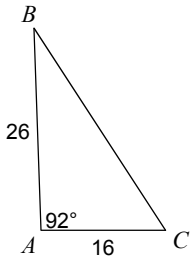
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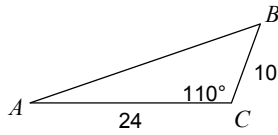
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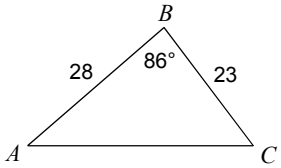
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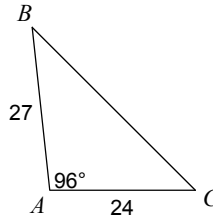
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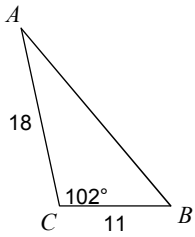
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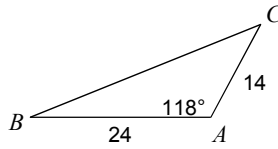
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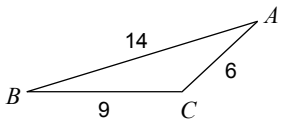
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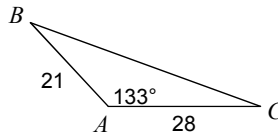
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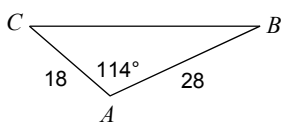
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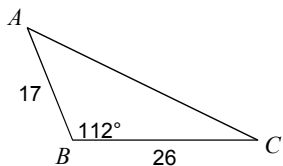
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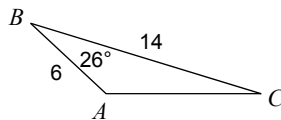
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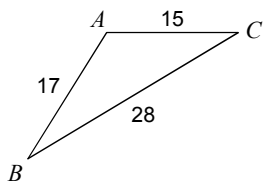
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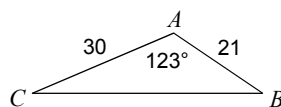
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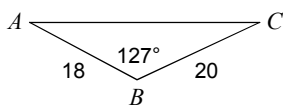
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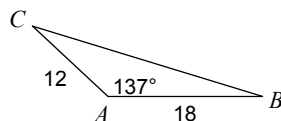
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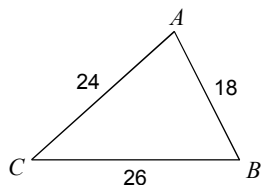
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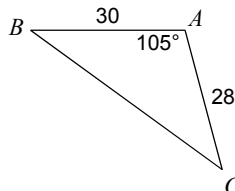
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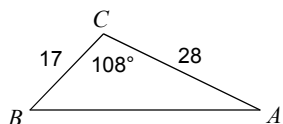
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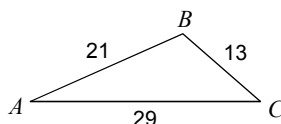
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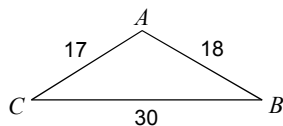
118)



119)



120)



Solve each triangle. Round your answers to the nearest tenth. Tip: use LOC and solve Quadratic Equation. There will be either zero, one, or two possible triangles.

121) $m\angle C = 121^\circ$, $b = 33$, $c = 6$

122) $m\angle C = 25^\circ$, $b = 34$, $c = 30$

123) $m\angle C = 94^\circ$, $b = 30$, $c = 12$

124) $m\angle A = 22^\circ$, $c = 23$, $a = 18$

125) $m\angle A = 16^\circ$, $c = 23$, $a = 18$

126) $m\angle A = 77^\circ$, $c = 32$, $a = 30$

127) $m\angle C = 129^\circ$, $b = 25$, $c = 33$

128) $m\angle A = 108^\circ$, $c = 22$, $a = 34$

129) $m\angle C = 42^\circ$, $m\angle A = 75^\circ$, $b = 12$

130) $m\angle B = 58^\circ$, $m\angle A = 26^\circ$, $c = 34$

Answers to Week 8 Practice (ID: 1)

- 1) $m\angle B = 61^\circ$, $b = 10$, $c = 11.4$
- 2) $m\angle B = 45^\circ$, $m\angle A = 45^\circ$, $c = 5.7$
- 3) $m\angle B = 35^\circ$, $a = 2.5$, $b = 1.7$
- 4) $m\angle A = 36^\circ$, $b = 14$, $c = 17.3$
- 5) $m\angle B = 64^\circ$, $b = 4.1$, $c = 4.6$
- 6) $m\angle A = 60.6^\circ$, $m\angle B = 29.4^\circ$, $c = 18.4$
- 7) $m\angle B = 31^\circ$, $b = 5.3$, $c = 10.3$
- 8) $m\angle A = 25^\circ$, $a = 1.4$, $c = 3.3$
- 9) $m\angle B = 44.4^\circ$, $m\angle A = 45.6^\circ$, $b = 4.9$
- 10) $m\angle A = 16^\circ$, $b = 41.8$, $c = 43.5$
- 11) $m\angle B = 37^\circ$, $a = 6.6$, $c = 8.3$
- 12) $m\angle A = 17^\circ$, $b = 14.9$, $c = 15.6$
- 13) $m\angle B = 34^\circ$, $b = 6.2$, $a = 9.1$
- 14) $m\angle B = 40^\circ$, $b = 5$, $c = 7.8$
- 15) $m\angle A = 57^\circ$, $a = 10$, $c = 11.9$
- 16) $m\angle B = 41^\circ$, $a = 12.7$, $c = 16.8$
- 17) $m\angle B = 40^\circ$, $b = 12.6$, $c = 19.6$
- 18) $m\angle B = 27.8^\circ$, $m\angle A = 62.2^\circ$, $a = 13.3$
- 19) $m\angle A = 70^\circ$, $b = 5.1$, $c = 14.9$
- 20) $m\angle A = 50.8^\circ$, $m\angle B = 39.2^\circ$, $c = 18.1$
- 21) $m\angle B = 39.5^\circ$, $m\angle A = 50.5^\circ$, $a = 8.5$
- 22) $m\angle B = 40^\circ$, $b = 12.6$, $c = 19.6$
- 23) $m\angle A = 64^\circ$, $b = 5.7$, $a = 11.7$
- 24) $m\angle A = 73^\circ$, $a = 22.9$, $c = 23.9$
- 25) $m\angle A = 42^\circ$, $a = 4.7$, $b = 5.2$
- 26) $m\angle B = 68^\circ$, $a = 4.9$, $b = 12.1$
- 27) $m\angle B = 25^\circ$, $m\angle A = 65^\circ$, $c = 16.6$
- 28) $m\angle A = 52^\circ$, $b = 8$, $c = 13$
- 29) $m\angle A = 36^\circ$, $a = 9.4$, $b = 12.9$
- 30) $m\angle B = 61^\circ$, $b = 28.9$, $c = 33$
- 31) $m\angle B = 42^\circ$, $b = 13$, $c = 19.4$
- 32) $m\angle A = 61.4^\circ$, $m\angle B = 28.6^\circ$, $c = 12.5$
- 33) $m\angle B = 24.4^\circ$, $m\angle A = 65.6^\circ$, $c = 7.2$
- 34) $m\angle A = 29^\circ$, $a = 3$, $c = 6.2$
- 35) $m\angle B = 74^\circ$, $b = 2.6$, $c = 2.7$
- 36) $m\angle A = 18^\circ$, $b = 43.1$, $c = 45.3$
- 37) $m\angle B = 49^\circ$, $a = 6.1$, $c = 9.3$
- 38) $m\angle B = 17^\circ$, $a = 32.7$, $c = 34.2$
- 39) $m\angle A = 40.7^\circ$, $a = 5.2$, $b = 6.1$
- 40) $m\angle B = 51^\circ$, $b = 2.3$, $a = 1.9$
- 41) $m\angle C = 36^\circ$, $c = 15$, $b = 12$
- 42) $m\angle B = 58^\circ$, $a = 34$, $c = 15$
- 43) $m\angle B = 28^\circ$, $c = 36$, $a = 30$
- 44) $m\angle B = 63^\circ$, $a = 13$, $c = 9$
- 45) $m\angle C = 109^\circ$, $a = 14$, $b = 13$
- 46) $m\angle B = 33^\circ$, $m\angle C = 19^\circ$, $b = 20$
- 47) $m\angle C = 23^\circ$, $b = 10$, $a = 15$
- 48) $m\angle C = 89^\circ$, $a = 21$, $b = 14$
- 49) $m\angle B = 93^\circ$, $a = 29$, $c = 12$
- 50) $m\angle B = 50^\circ$, $m\angle C = 48^\circ$, $b = 34$
- 51) $m\angle B = 25^\circ$, $a = 34$, $c = 20$
- 52) $m\angle A = 61^\circ$, $a = 28$, $c = 32$
- 53) $m\angle C = 35^\circ$, $c = 31$, $b = 27$
- 54) $m\angle B = 28^\circ$, $m\angle C = 25^\circ$, $b = 20$
- 55) $m\angle B = 63^\circ$, $m\angle C = 42^\circ$, $b = 24$
- 56) $m\angle A = 58^\circ$, $c = 40$, $a = 34$
- 57) $m\angle C = 78^\circ$, $a = 22$, $b = 24$
- 58) $m\angle B = 122^\circ$, $a = 30$, $c = 34$
- 59) $m\angle A = 39^\circ$, $a = 27$, $c = 24$
- 60) $m\angle C = 106^\circ$, $b = 33.1$, $c = 37.1$
- 61) $m\angle A = 136^\circ$, $b = 17$, $c = 12$
- 62) $m\angle A = 75^\circ$, $b = 32$, $c = 11$
- 63) $m\angle C = 78^\circ$, $m\angle A = 36^\circ$, $c = 30$
- 64) $m\angle A = 20^\circ$, $b = 24.1$, $c = 43$
- 65) $m\angle C = 18^\circ$, $b = 25$, $c = 12$
- 66) $m\angle A = 58^\circ$, $c = 33$, $b = 17$
- 67) $m\angle C = 35^\circ$, $m\angle A = 54^\circ$, $c = 12$
- 68) $m\angle C = 34^\circ$, $b = 17$, $c = 10$
- 69) $m\angle B = 46^\circ$, $m\angle C = 16^\circ$, $b = 13$
- 70) $m\angle C = 121^\circ$, $b = 18$, $a = 21$
- 71) $m\angle B = 38^\circ$, $m\angle C = 40^\circ$, $b = 22$
- 72) $m\angle C = 54^\circ$, $b = 43$, $c = 35$
- 73) $m\angle B = 27^\circ$, $a = 10$, $b = 5$
- 74) $m\angle B = 97.9^\circ$, $m\angle C = 18.1^\circ$, $b = 32$
- 75) $m\angle A = 34^\circ$, $m\angle B = 36^\circ$, $a = 19$
- 76) $m\angle A = 41^\circ$, $m\angle B = 26^\circ$, $a = 15$
- 77) $m\angle A = 61^\circ$, $c = 21$, $a = 23$
- 78) $m\angle B = 123^\circ$, $a = 7$, $b = 15$
- 79) $m\angle B = 111.9^\circ$, $m\angle C = 31.1^\circ$, $b = 54$
- 80) $m\angle B = 39^\circ$, $c = 27$, $a = 21$
- 81) $m\angle A = 24^\circ$, $m\angle B = 22^\circ$, $c = 23$
- 82) $m\angle A = 122^\circ$, $m\angle B = 31^\circ$, $c = 15$
- 83) $m\angle C = 26^\circ$, $m\angle A = 35^\circ$, $b = 32$
- 84) $m\angle A = 63^\circ$, $m\angle B = 42^\circ$, $m\angle C = 75^\circ$
- 85) $m\angle A = 60^\circ$, $m\angle B = 90^\circ$, $c = 15$
- 86) $m\angle A = 43^\circ$, $m\angle B = 55^\circ$, $c = 29$
- 87) $m\angle B = 17^\circ$, $m\angle C = 26^\circ$, $a = 42$
- 88) $m\angle A = 34^\circ$, $m\angle B = 53^\circ$, $c = 25$
- 89) $m\angle A = 108^\circ$, $m\angle B = 34^\circ$, $c = 11$
- 90) $m\angle A = 66^\circ$, $m\angle B = 23^\circ$, $c = 23$
- 91) $m\angle B = 36^\circ$, $m\angle C = 39^\circ$, $a = 23$
- 92) $m\angle A = 23^\circ$, $m\angle B = 31^\circ$, $c = 33$
- 93) $m\angle B = 29^\circ$, $m\angle C = 42^\circ$, $a = 41$
- 94) $m\angle A = 22^\circ$, $m\angle B = 24^\circ$, $c = 46$
- 95) $m\angle C = 30^\circ$, $m\angle A = 61^\circ$, $b = 24$
- 96) $m\angle A = 38^\circ$, $m\angle B = 34^\circ$, $m\angle C = 108^\circ$
- 97) $m\angle C = 30^\circ$, $m\angle A = 32^\circ$, $b = 30$
- 98) $m\angle C = 34^\circ$, $m\angle A = 38^\circ$, $b = 34$
- 99) $m\angle B = 31^\circ$, $m\angle C = 26^\circ$, $a = 44$
- 100) $m\angle A = 30^\circ$, $m\angle B = 46^\circ$, $c = 31$

- 101) $m\angle B = 31^\circ, m\angle C = 57^\circ, a = 31$
 103) $m\angle C = 53^\circ, m\angle A = 41^\circ, b = 35$
 105) $m\angle A = 28^\circ, m\angle B = 50^\circ, c = 23$
 107) $m\angle A = 26^\circ, m\angle B = 17^\circ, m\angle C = 137^\circ$
 109) $m\angle B = 25^\circ, m\angle C = 41^\circ, a = 39$
 111) $m\angle C = 17^\circ, m\angle A = 137^\circ, b = 9$
 113) $m\angle B = 34^\circ, m\angle C = 23^\circ, a = 45$
 115) $m\angle B = 17^\circ, m\angle C = 26^\circ, a = 28$
 117) $m\angle B = 36^\circ, m\angle C = 39^\circ, a = 46$
 119) $m\angle C = 41^\circ, m\angle A = 24^\circ, m\angle B = 115^\circ$
 121) Not a triangle
- 102) $m\angle A = 19^\circ, m\angle B = 51^\circ, c = 29$
 104) $m\angle B = 39^\circ, m\angle C = 45^\circ, a = 38$
 106) $m\angle B = 22^\circ, m\angle C = 40^\circ, a = 33$
 108) $m\angle B = 27^\circ, m\angle C = 20^\circ, a = 45$
 110) $m\angle C = 26^\circ, m\angle A = 42^\circ, b = 36$
 112) $m\angle A = 122^\circ, m\angle B = 27^\circ, m\angle C = 31^\circ$
 114) $m\angle C = 25^\circ, m\angle A = 28^\circ, b = 34$
 116) $m\angle B = 63^\circ, m\angle C = 42^\circ, m\angle A = 75^\circ$
 118) $m\angle A = 26^\circ, m\angle B = 46^\circ, c = 37$
 120) $m\angle B = 30^\circ, m\angle C = 32^\circ, m\angle A = 118^\circ$
 122) $m\angle A = 126.4^\circ, m\angle B = 28.6^\circ, a = 57.1$
 Or $m\angle A = 3.6^\circ, m\angle B = 151.4^\circ, a = 4.5$
 123) Not a triangle
- 124) $m\angle B = 129.4^\circ, m\angle C = 28.6^\circ, b = 37.1$
 Or $m\angle B = 6.6^\circ, m\angle C = 151.4^\circ, b = 5.5$
 125) $m\angle B = 143.4^\circ, m\angle C = 20.6^\circ, b = 38.9$
 Or $m\angle B = 4.6^\circ, m\angle C = 159.4^\circ, b = 5.2$
 126) Not a triangle
 127) $m\angle A = 14.9^\circ, m\angle B = 36.1^\circ, a = 10.9$
 128) $m\angle C = 38^\circ, m\angle B = 34^\circ, b = 20$
 129) $m\angle B = 63^\circ, a = 13, c = 9$
 130) $m\angle C = 96^\circ, a = 15, b = 29$