

Assignment

Date _____ Period _____

Find the exact value of each trigonometric function.

1) $\cos -135^\circ$

2) $\cos 330^\circ$

3) $\cos -315^\circ$

4) $\tan 150^\circ$

5) $\tan 330^\circ$

6) $\sin -330^\circ$

7) $\sin -150^\circ$

8) $\sin 0^\circ$

9) $\cos 0^\circ$

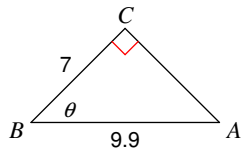
10) $\cos 180^\circ$

11) $\sin -180^\circ$

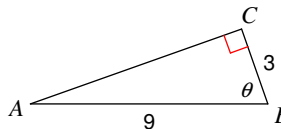
12) $\tan -30^\circ$

Find the measure of each angle indicated. Round to the nearest tenth.

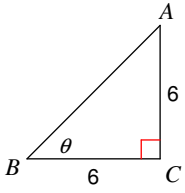
13)



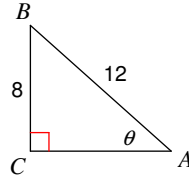
14)



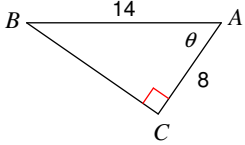
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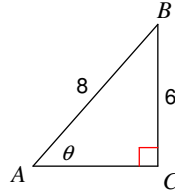
16)



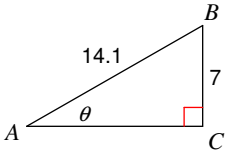
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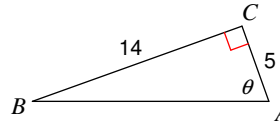
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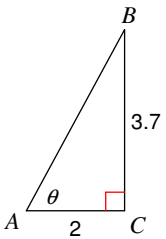
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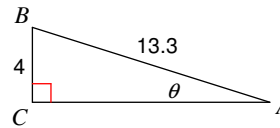
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21)

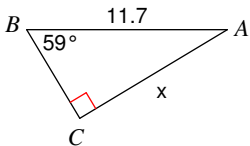


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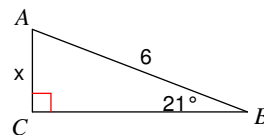


Find the measure of each side indicated. Round to the nearest tenth.

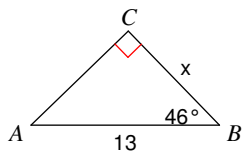
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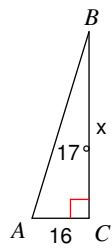
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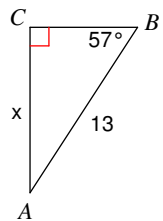
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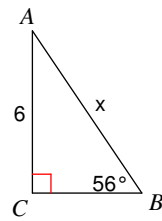
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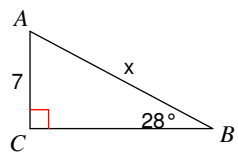
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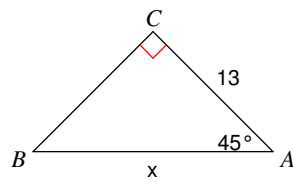
28)



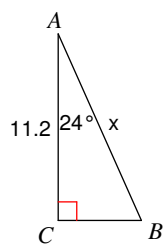
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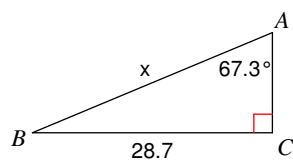
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31)

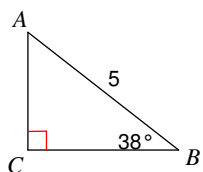


32)

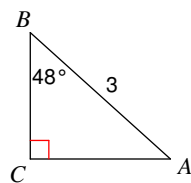


Solve each triangle. Round answers to the nearest tenth.

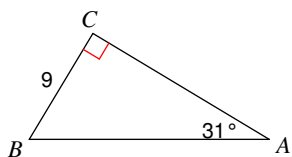
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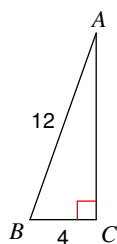
34)



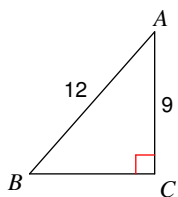
35)



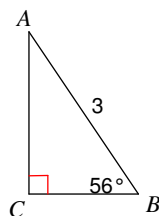
36)



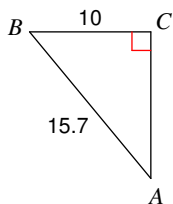
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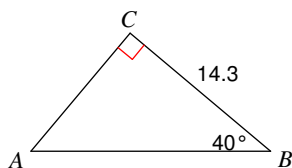
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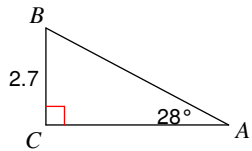
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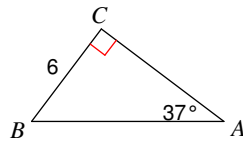
40)



41)

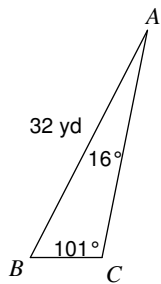


42)

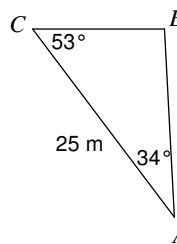


Find each measurement indicated. Round your answers to the nearest tenth.

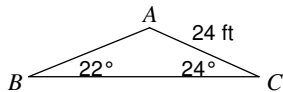
43) Find BC



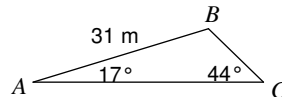
44) Find BC



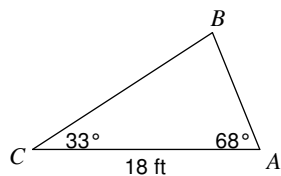
45) Find AB



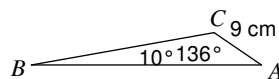
46) Find BC



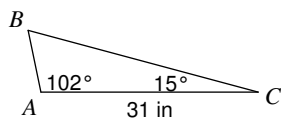
47) Find BC



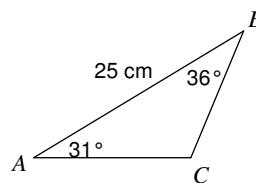
48) Find AB



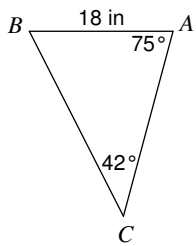
49) Find BC



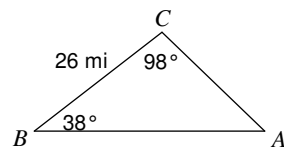
50) Find AC



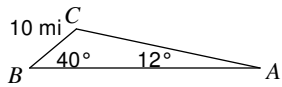
51) Find BC



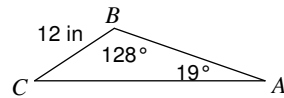
52) Find AB



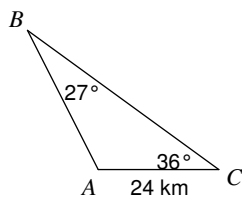
53) Find AC



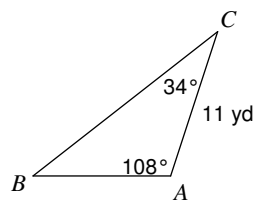
54) Find AC



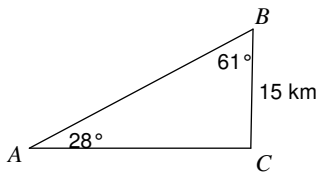
55) Find AB



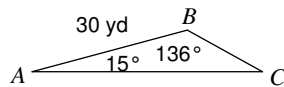
56) Find BC



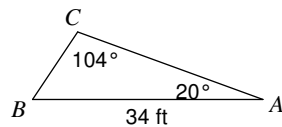
57) Find AC



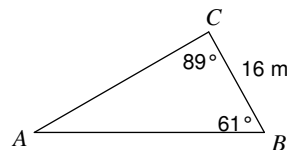
58) Find AC



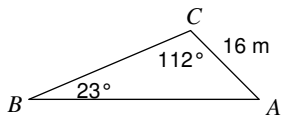
59) Find BC



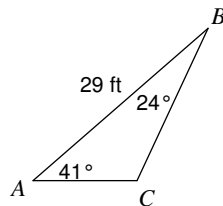
60) Find AB



61) Find AB

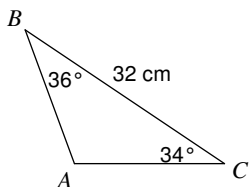


62) Find AC

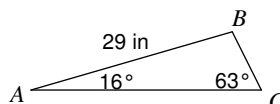


Solve each triangle. Round your answers to the nearest tenth.

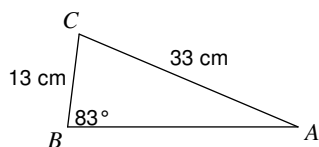
63)



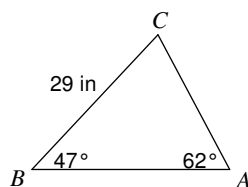
64)



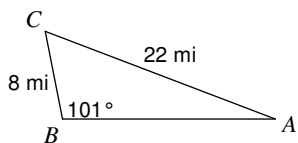
65)



66)

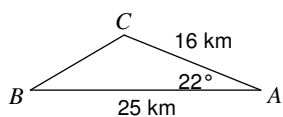


67)

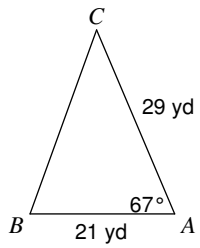


Find each measurement indicated. Round your answers to the nearest tenth.

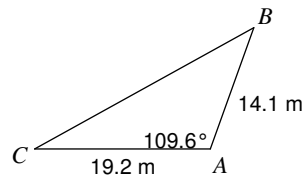
68) Find BC



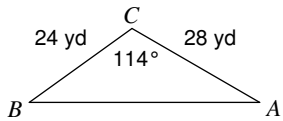
69) Find BC



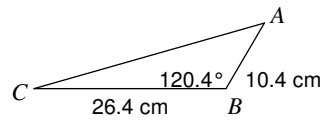
70) Find BC



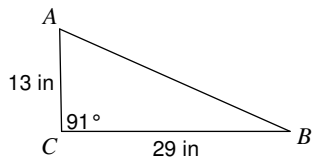
71) Find AB



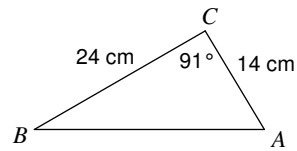
72) Find AC



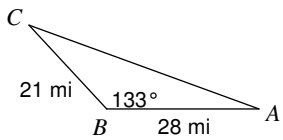
73) Find AB



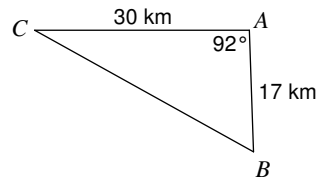
74) Find AB



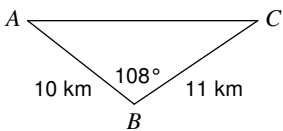
75) Find AC



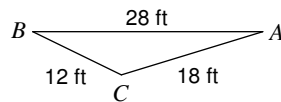
76) Find BC



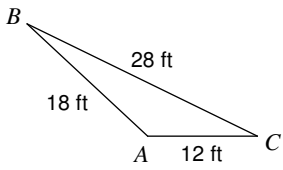
77) Find AC



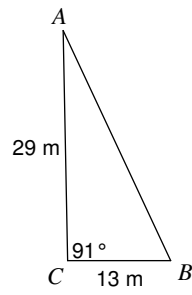
78) Find $m\angle A$



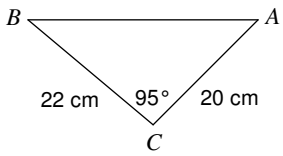
79) Find $m\angle A$



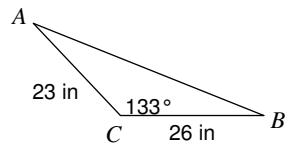
80) Find $m\angle A$



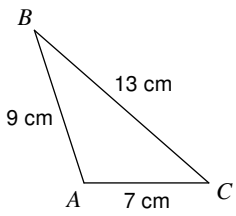
81) Find $m\angle A$



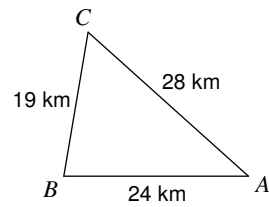
82) Find $m\angle A$



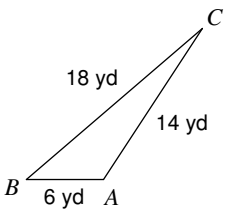
83) Find $m\angle A$



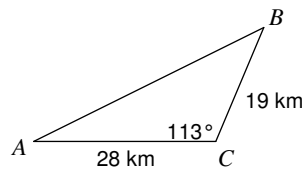
84) Find $m\angle B$



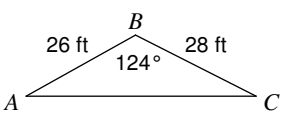
85) Find $m\angle C$



86) Find $m\angle A$

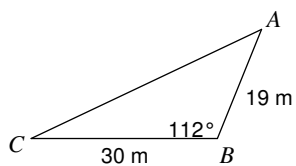


87) Find $m\angle C$

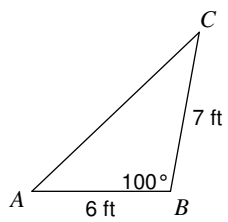


Solve each triangle. Round your answers to the nearest tenth.

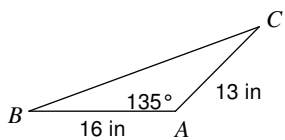
88)



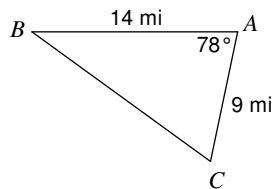
89)



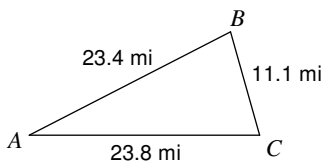
90)



91)



92)



Answers to Assignment (ID: 1)

- | | | | |
|---|--|--|---------------------------|
| 1) $-\frac{\sqrt{2}}{2}$ | 2) $\frac{\sqrt{3}}{2}$ | 3) $\frac{\sqrt{2}}{2}$ | 4) $-\frac{\sqrt{3}}{3}$ |
| 5) $-\frac{\sqrt{3}}{3}$ | 6) $\frac{1}{2}$ | 7) $-\frac{1}{2}$ | 8) 0 |
| 9) 1 | 10) -1 | 11) 0 | 12) $-\frac{\sqrt{3}}{3}$ |
| 13) 45° | 14) 70.5° | 15) 45° | 16) 41.8° |
| 17) 55.2° | 18) 48.6° | 19) 29.8° | 20) 70.3° |
| 21) 61.6° | 22) 17.5° | 23) 10 | 24) 2.2 |
| 25) 9 | 26) 52.3 | 27) 10.9 | 28) 7.2 |
| 29) 14.9 | 30) 18.4 | 31) 12.3 | 32) 31.1 |
| 33) $m\angle A = 52^\circ, b = 3.1, a = 3.9$ | 34) $m\angle A = 42^\circ, b = 2.2, a = 2$ | 35) $m\angle B = 59^\circ, b = 15, c = 17.5$ | |
| 36) $m\angle B = 70.5^\circ, m\angle A = 19.5^\circ, b = 11.3$ | 37) $m\angle B = 48.6^\circ, m\angle A = 41.4^\circ, a = 7.9$ | | |
| 38) $m\angle A = 34^\circ, b = 2.5, a = 1.7$ | 39) $m\angle B = 50.4^\circ, m\angle A = 39.6^\circ, b = 12.1$ | | |
| 40) $m\angle A = 50^\circ, b = 12, c = 18.7$ | 41) $m\angle B = 62^\circ, b = 5.1, c = 5.8$ | 42) $m\angle B = 53^\circ, b = 8, c = 10$ | |
| 43) 9 yd | 44) 14 m | 45) 26.1 ft | 46) 13 m |
| 47) 17 ft | 48) 36 cm | 49) 34 in | 50) 16 cm |
| 51) 26 in | 52) 37.1 mi | 53) 30.9 mi | 54) 29 in |
| 55) 31.1 km | 56) 17 yd | 57) 27.9 km | 58) 43 yd |
| 59) 12 ft | 60) 32 m | 61) 38 m | 62) 13 ft |
| 63) $m\angle A = 110^\circ, b = 20 \text{ cm}, c = 19 \text{ cm}$ | 64) $m\angle B = 101^\circ, b = 31.9 \text{ in}, a = 9 \text{ in}$ | | |
| 65) $m\angle C = 74^\circ, m\angle A = 23^\circ, c = 32 \text{ cm}$ | 66) $m\angle C = 71^\circ, c = 31.1 \text{ in}, b = 24 \text{ in}$ | | |
| 67) $m\angle A = 20.9^\circ, m\angle C = 58.1^\circ, c = 19 \text{ mi}$ | 68) 11.8 km | 69) 28.4 yd | |
| 70) 27.4 m | 71) 43.7 yd | 72) 32.9 cm | 73) 32 in |
| 74) 28 cm | 75) 45 mi | 76) 35 km | 77) 17 km |
| 78) 17° | 79) 137° | 80) 24° | 81) 45° |
| 82) 25° | 83) 108° | 84) 80.3° | 85) 16.2° |
| 86) 26.3° | 87) 26.9° | 88) $m\angle C = 25.4^\circ, m\angle A = 42.6^\circ, b = 41.1 \text{ m}$ | |
| 89) $m\angle C = 36.4^\circ, m\angle A = 43.6^\circ, b = 10 \text{ ft}$ | 90) $m\angle B = 20^\circ, m\angle C = 25^\circ, a = 26.8 \text{ in}$ | | |
| 91) $m\angle B = 36.1^\circ, m\angle C = 65.9^\circ, a = 15 \text{ mi}$ | 92) $m\angle A = 27.2^\circ, m\angle B = 78.4^\circ, m\angle C = 74.4^\circ$ | | |