

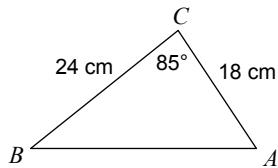
Practice Q3OBQ3 - All work on looseleaf.

Date _____ Period _____

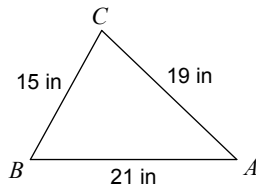
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Solve each triangle. Round your answers to the nearest tenth.

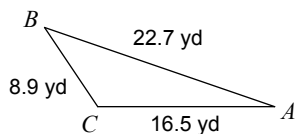
1)



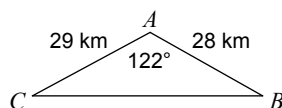
2)



3)



4)

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

5) $c = 12$ yd, $b = 20$ yd, $m\angle A = 87^\circ$

Find a

6) $b = 15$ m, $a = 27$ m, $m\angle C = 106^\circ$

Find c

7) $a = 23.6$ ft, $c = 15.9$ ft, $m\angle B = 100.3^\circ$

Find b

8) $c = 27.3$ cm, $a = 24.1$ cm, $m\angle B = 72.7^\circ$

Find $m\angle C$

9) $a = 14$ in, $m\angle C = 144^\circ$, $b = 17$ in

Find $m\angle A$

10) $c = 29$ mi, $m\angle A = 73^\circ$, $b = 15$ mi

Find $m\angle B$ **Use the Law of Cosines to find each measurement indicated. Round your answers to the nearest tenth.**

11) $m\angle A = 50^\circ$, $c = 26$, $a = 20$

Find b

12) $m\angle C = 26^\circ$, $b = 27$, $c = 11$

Find a

13) $m\angle B = 64^\circ$, $a = 26$, $b = 10$

Find c

14) $m\angle A = 28^\circ$, $c = 30$, $a = 29$

Find b **Find the area of each triangle to the nearest tenth.**

15) In $\triangle RPQ$, $q = 15$ km, $p = 12.2$ km, $m\angle R = 143^\circ$

16) In $\triangle PKH$, $k = 13$ km, $m\angle P = 67^\circ$, $h = 14$ km

17) In $\triangle CAB$, $m\angle C = 111^\circ$, $m\angle A = 30^\circ$, $b = 12.2$ yd

18) In $\triangle ZXY$, $m\angle X = 99^\circ$, $y = 5$ in, $m\angle Z = 45^\circ$

Answers to Practice Q3OBQ3 - All work on looseleaf. (ID: 11)

1) $m\angle A = 56.3^\circ$, $m\angle B = 38.7^\circ$, $c = 28.7$ cm

3) $m\angle B = 37.1^\circ$, $m\angle C = 123.9^\circ$, $m\angle A = 19^\circ$

5) 22.8 yd

6) 34.3 m

9) 16.2°

10) 30.3°

13) Not a triangle

14) 51.9 or 1.2

17) 55.2 yd²

18) 14.8 in²

2) $m\angle B = 61^\circ$, $m\angle C = 75.3^\circ$, $m\angle A = 43.7^\circ$

4) $m\angle B = 29.6^\circ$, $m\angle C = 28.4^\circ$, $a = 49.9$ km

7) 30.7 ft

8) 58.5°

11) 18.5 or 14.9

12) Not a triangle

15) 55.1 km²

16) 83.8 km²