

Practice for Q3OBQ1

Date _____ Period _____

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

1) $a = 28$ yd, $c = 15$ yd, $m\angle B = 91^\circ$

Find b

2) $b = 19$ km, $m\angle C = 17^\circ$, $a = 25$ km

Find c

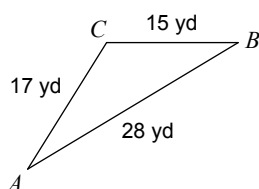
3) $c = 27$ ft, $b = 11$ ft, $a = 21$ ft

Find $m\angle B$

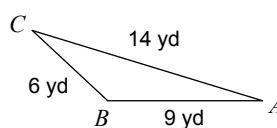
4) $c = 24$ cm, $a = 20$ cm, $b = 28$ cm

Find $m\angle C$ **Solve each triangle. Round your answers to the nearest tenth.**

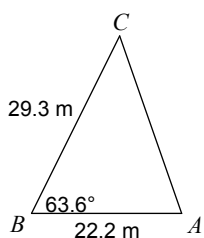
5)



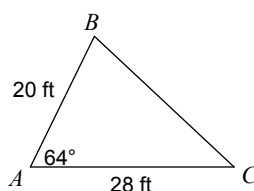
6)



7)



8)

**Solve each triangle. Use the Quadratic Formula if necessary. Round your answers to the nearest tenth.**

9) $m\angle B = 80^\circ$, $m\angle A = 39^\circ$, $c = 32$ m

10) $m\angle A = 43^\circ$, $c = 35$ m, $a = 34$ m

11) $m\angle C = 51^\circ$, $b = 25$ m, $c = 15$ m

12) $m\angle A = 59^\circ$, $c = 28$ in, $a = 13$ in

13) $m\angle B = 21^\circ$, $a = 24$ mi, $b = 16$ mi

14) $m\angle C = 87^\circ$, $m\angle A = 52^\circ$, $b = 25$ ft

15) $m\angle C = 40^\circ$, $b = 33$ m, $c = 23$ m

16) $m\angle C = 157^\circ$, $b = 24$ in, $c = 15$ in

Answers to Practice for Q3OBQ1 (ID: 11)

- 1) 32 yd 2) 8.8 km 3) 22.3° 4) 57.1°
5) $m\angle C = 122^\circ$, $m\angle A = 27^\circ$, $m\angle B = 31^\circ$ 6) $m\angle B = 137^\circ$, $m\angle C = 26^\circ$, $m\angle A = 17^\circ$
7) $m\angle C = 45.7^\circ$, $m\angle A = 70.7^\circ$, $b = 27.8$ m 8) $m\angle B = 72.9^\circ$, $m\angle C = 43.1^\circ$, $a = 26.3$ ft
9) $m\angle C = 61^\circ$, $a = 23$ m, $b = 36$ m 10) $m\angle B = 92.4^\circ$, $m\angle C = 44.6^\circ$, $b = 49.8$ m
Or $m\angle B = 1.6^\circ$, $m\angle C = 135.4^\circ$, $b = 1.4$ m
11) Not a triangle 12) Not a triangle
13) $m\angle C = 126.5^\circ$, $m\angle A = 32.5^\circ$, $c = 35.9$ mi
Or $m\angle C = 11.5^\circ$, $m\angle A = 147.5^\circ$, $c = 8.9$ mi
14) $m\angle B = 41^\circ$, $c = 38.1$ ft, $a = 30$ ft 15) $m\angle A = 72.7^\circ$, $m\angle B = 67.3^\circ$, $a = 34.2$ m
Or $m\angle A = 27.3^\circ$, $m\angle B = 112.7^\circ$, $a = 16.4$ m
16) Not a triangle