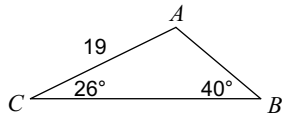


Practice Test 6.1,6.2

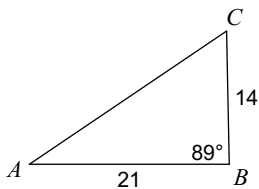
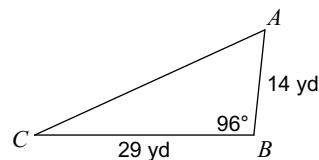
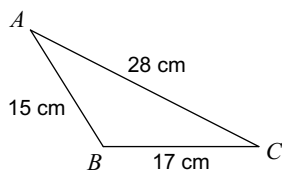
Date _____ Period _____

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

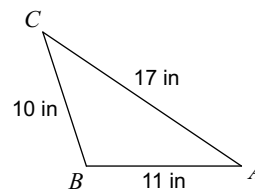
1) Find AB

2) $m\angle A = 31^\circ$, $c = 19$, $a = 10$
Find $m\angle B$ **State the number of possible triangles that can be formed using the given measurements.**3) $m\angle A = 58^\circ$, $a = 29$, $c = 15$ **Solve each triangle. Round your answers to the nearest tenth.**4) $m\angle C = 122^\circ$, $m\angle A = 27^\circ$, $c = 28$ **Find each measurement indicated. Round your answers to the nearest tenth.**

5) Find AC

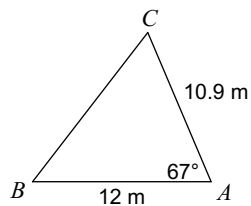
6) Find $m\angle C$ 7) Find $m\angle A$ **Solve each triangle. Round your answers to the nearest tenth.**

8)

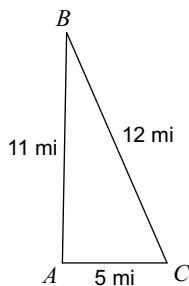


Find the area of each triangle to the nearest tenth.

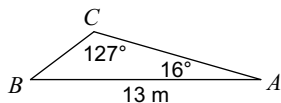
9)



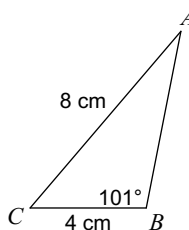
10)



11)



12)



13) There will be 4 story problems dealing with law of sines, law of cosines or area of a triangle. Here is one example: To approximate the length of a marsh, a surveyor walks 425 meters from point A to point B. Then the surveyor turns 65 degrees and walks 300 meters to point C. Find the length of AC which is the length of the marsh.

Answers to Practice Test 6.1,6.2 (ID: 1)

- 1) 13 2) 70.9° or 47.1° 3) One triangle
4) $m\angle B = 31^\circ$, $b = 17$, $a = 15$ 5) 25 6) 24.6°
7) 31° 8) $m\angle A = 34^\circ$, $m\angle B = 108^\circ$, $m\angle C = 38^\circ$ 9) 60.2 m^2
10) 27.5 mi^2 11) 17.6 m^2 12) 12.2 cm^2 13) 615.1 meters