CW: The Law of Sines

Name:

Date: PD:

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



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

9) m∠B = 45°, a = 28, b = 27 10) m∠B = 73°, a = 7, b = 5

11) m∠C = 13°, m∠A = 22°, c = 9

State the number of possible triangles that can be formed using the given measurements.

12) m∠B = 33°, a = 27, b = 22 13) m∠B = 95°, a = 5, b = 24 14) m∠B = 35°, a = 24, b = 6

Find the area of each triangle to the nearest tenth.

15) 16)





Answers:

1. 14
2. 8
3. 17
4. 29.1
5. 33
6. 53.8°
7. 43.1°
8. 13°
9. m∠C = 87.8°, m∠A = 47.2°, c = 38.2 or m∠C = 2.2°, m∠A = 132.8°, c = 1.5
10. not a triangle
11. m∠B = 145°, a = 15, b = 22.9
12. 2
13. 1
14. None
15. 12km2
16. 23mi2