Sine Law Drills

Solve the triangle ABC given the following. Round the angles to the nearest degree and the lengths to 2 decimal places.

1. A = 135 deg, a = 46.74 cm, c = 30.01 cm.

2. C = 129 deg, b = 7.34 deg, c = 40.97 cm.

3. A = 46 deg, a = 34.28 cm, b = 47.19 cm.

4. A = 12 deg, C = 46 deg, c = 6.33 cm.

5. A = 89 deg, C = 70 deg, a = 30.86 cm.

6. C = 10 deg, b = 5.65 deg, c = 28.12 cm.

7. A = 43 deg, a = 6.26 cm, c = 7.03 cm.

8. A = 63 deg, C = 73 deg, c = 39.65 cm.

9. A = 58 deg, C = 22 deg, a = 52.57 cm.

10. C = 83 deg, a = 22.48 deg, c = 23.74 cm.

11. A = 85 deg, a = 20.06 cm, c = 18.67 cm.

12. B = 90 deg, a = 22.22 cm, b = 38.75 cm.

13. A = 147 deg, a = 69.48 cm, c = 41.53 cm.

14. B = 13 deg, C = 17 deg, c = 22.97 cm.

15. A = 43 deg, a = 50.41 cm, b = 72.56 cm.

Answers
1. B=18 deg, C=27 deg, b=20.43 cm. 2. A=43 deg, B=8 deg, a=35.95 cm. 3. B=82 deg, C=52 deg, c=37.55 cm. 4. B=122 deg, a=1.83 cm, b=7.46 cm. 5. B=21 deg, b=11.06 cm, c=29 cm.6. A=168 deg, B=2 deg, a=33.67 cm. 7. B=87 deg, C=50 deg, b=9.16 cm. 8. B=44 deg, a=36.94 cm, b=28.8 cm. 9. B=100 deg, b=61.04 cm, c=23.22 cm. 10. A=70 deg, B=27 deg, b=10.86 cm. 11. B=27 deg, C=68 deg, b=9.14 cm. 12. A=35 deg, C=55 deg, c=31.74 cm. 13. B=14 deg, C=19 deg, b=30.86 cm. 14. A=150 deg, a=39.28 cm, b=17.67 cm. 15. B=79 deg, C=58 deg, c=62.68 cm.