

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 = 61 deg, C = 21 deg, a = 16.62 cm.
2. B = 56 deg, b = 89.17 cm, c = 43.75 cm.
3. A = 132 deg, B = 25 deg, a = 11.09 cm.
4. B = 34 deg, C = 22 deg, c = 30.03 cm.
5. B = 17 deg, C = 82 deg, b = 5.91 cm.
6. B = 6 deg, C = 13 deg, c = 20.44 cm.
7. B = 45 deg, C = 71 deg, b = 26.27 cm.
8. B = 14 deg, b = 20.1 cm, c = 28.41 cm.
9. A = 76 deg, C = 80 deg, a = 39.77 cm.
10. C = 31 deg, b = 48.69 deg, c = 27.45 cm.
11. A = 146 deg, B = 6 deg, a = 7.52 cm.
12. A = 85 deg, C = 82 deg, c = 25.22 cm.
13. A = 135 deg, B = 28 deg, b = 58.1 cm.
14. C = 14 deg, a = 95.46 deg, c = 32.66 cm.
15. A = 168 deg, a = 43.11 cm, b = 3.62 cm.

Answers

1. B=98 deg, b=18.82 cm, c=6.81 cm.
2. A=100 deg, C=24 deg, a=105.93 cm.
3. C=23 deg, b=6.31 cm, c=5.83 cm.
4. A=124 deg, a=66.46 cm, b=44.83 cm.
5. A=81 deg, a=19.98 cm, c=20.03 cm.
6. A=161 deg, a=29.58 cm, b=9.5 cm.
7. A=64 deg, a=33.39 cm, c=35.13 cm.
8. A=146 deg, C=20 deg, a=46.45 cm.
9. B=24 deg, b=16.67 cm, c=40.36 cm.
10. A=83 deg, B=66 deg, a=52.9 cm.
11. C=28 deg, b=1.4 cm, c=6.31 cm.
12. B=13 deg, a=25.37 cm, b=5.73 cm.
13. C=17 deg, a=87.5 cm, c=36.18 cm.
14. A=45 deg, B=121 deg, b=6.77 cm.
15. B=1 deg, C=11 deg, c=39.56 cm.