

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 = 41 deg, C = 95 deg, a = 19.91 cm.
2. B = 21 deg, C = 93 deg, c = 16 cm.
3. A = 44 deg, C = 70 deg, a = 8.12 cm.
4. C = 30 deg, a = 19.65 deg, c = 11.13 cm.
5. A = 36 deg, C = 114 deg, a = 12.3 cm.
6. B = 4 deg, b = 12.78 cm, c = 38.08 cm.
7. A = 95 deg, a = 54.95 cm, b = 30.04 cm.
8. A = 14 deg, C = 93 deg, c = 18.78 cm.
9. A = 160 deg, B = 4 deg, a = 13.8 cm.
10. B = 116 deg, C = 22 deg, c = 14.41 cm.
11. A = 64 deg, a = 76.79 cm, c = 29.22 cm.
12. C = 11 deg, b = 36.41 deg, c = 17.08 cm.
13. A = 73 deg, B = 33 deg, a = 28.8 cm.
14. C = 83 deg, b = 6 deg, c = 12.68 cm.
15. A = 3 deg, B = 94 deg, b = 12.63 cm.

Answers

1. B=44 deg, b=21.08 cm, c=30.23 cm.
2. A=66 deg, a=14.64 cm, b=5.74 cm.
3. B=66 deg, b=10.67 cm, c=10.98 cm.
4. A=62 deg, B=88 deg, b=5.56 cm.
5. B=30 deg, b=10.46 cm, c=19.12 cm.
6. A=164 deg, C=12 deg, a=50.48 cm.
7. B=33 deg, C=52 deg, c=43.47 cm.
8. B=73 deg, a=4.55 cm, b=17.98 cm.
9. C=16 deg, b=2.81 cm, c=11.12 cm.
10. A=42 deg, a=25.74 cm, b=34.57 cm.
11. B=96 deg, C=20 deg, b=84.97 cm.
12. A=145 deg, B=24 deg, a=51.34 cm.
13. C=74 deg, b=16.4 cm, c=28.95 cm.
14. A=69 deg, B=28 deg, a=11.93 cm.
15. C=83 deg, a=0.66 cm, c=12.57 cm.