

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 = 134 deg, B = 26 deg, a = 60.17 cm.
2. B = 5 deg, C = 66 deg, c = 37.5 cm.
3. A = 61 deg, B = 12 deg, b = 1.3 cm.
4. C = 37 deg, a = 12.6 deg, c = 9.62 cm.
5. B = 20 deg, C = 14 deg, b = 34.1 cm.
6. B = 114 deg, b = 32.93 cm, c = 11.14 cm.
7. A = 9 deg, C = 12 deg, a = 21.04 cm.
8. B = 26 deg, a = 60.33 cm, b = 28.33 cm.
9. A = 62 deg, C = 34 deg, a = 54.47 cm.
10. B = 4 deg, C = 94 deg, c = 29.31 cm.
11. A = 38 deg, B = 63 deg, b = 40.42 cm.
12. B = 3 deg, a = 12.17 cm, b = 0.95 cm.
13. A = 91 deg, a = 44.5 cm, c = 43.18 cm.
14. B = 45 deg, C = 110 deg, c = 22.96 cm.
15. A = 170 deg, C = 9 deg, a = 10.28 cm.

Answers

1. C=20 deg, b=36.67 cm, c=28.61 cm.
2. A=109 deg, a=38.81 cm, b=3.58 cm.
3. C=107 deg, a=5.48 cm, c=5.99 cm.
4. A=52 deg, B=91 deg, b=5.79 cm.
5. A=146 deg, a=55.75 cm, c=24.12 cm.
6. A=48 deg, C=18 deg, a=26.79 cm.
7. B=159 deg, b=48.21 cm, c=27.97 cm.
8. A=69 deg, C=85 deg, c=64.38 cm.
9. B=84 deg, b=61.36 cm, c=34.5 cm.
10. A=82 deg, a=29.1 cm, b=2.05 cm.
11. C=79 deg, a=27.93 cm, c=44.53 cm.
12. A=42 deg, C=135 deg, c=12.84 cm.
13. B=13 deg, C=76 deg, b=10.01 cm.
14. A=25 deg, a=10.33 cm, b=17.28 cm.
15. B=1 deg, b=1.03 cm, c=9.26 cm.