

Cosine Law Drills

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

1. A = 67 deg, b = 13.3 cm, c = 10.65 cm.
2. B = 73 deg, a = 61.32 cm, c = 26.17 cm.
3. C = 74 deg, a = 6.99 cm, b = 7.76 cm.
4. B = 68 deg, a = 28.03 cm, c = 28.7 cm.
5. a = 10.1 cm, b = 11.27 cm, c = 9.26 cm.
6. C = 65 deg, a = 21.92 cm, b = 25.93 cm.
7. C = 49 deg, a = 41.65 cm, b = 40.02 cm.
8. a = 37.32 cm, b = 31.34 cm, c = 38.22 cm.
9. B = 81 deg, a = 50.82 cm, c = 32.43 cm.
10. B = 52 deg, a = 5.14 cm, c = 6.94 cm.
11. B = 73 deg, a = 13.59 cm, c = 13.77 cm.
12. C = 24 deg, a = 21.48 cm, b = 20.08 cm.
13. C = 68 deg, a = 25.49 cm, b = 19.1 cm.
14. C = 76 deg, a = 33.43 cm, b = 33.43 cm.
15. B = 70 deg, a = 14.76 cm, c = 8.25 cm.

Answers

1. B=66 deg, C=47 deg, a=13.4 cm.
2. A=82 deg, C=25 deg, b=59.22 cm.
3. A=49 deg, B=57 deg, c=8.9 cm.
4. A=55 deg, C=57 deg, b=31.73 cm.
5. A=58 deg, B=71 deg, C=51 deg.
6. A=50 deg, B=65 deg, c=25.93 cm.
7. A=68 deg, B=63 deg, c=33.9 cm.
8. A=64 deg, B=49 deg, C=67 deg.
9. A=64 deg, C=35 deg, b=55.84 cm.
10. A=47 deg, C=81 deg, b=5.54 cm.
11. A=53 deg, C=54 deg, b=16.28 cm.
12. A=87 deg, B=69 deg, c=8.75 cm.
13. A=68 deg, B=44 deg, c=25.49 cm.
14. A=52 deg, B=52 deg, c=41.16 cm.
15. A=77 deg, C=33 deg, b=14.23 cm.