

Cosine Law Drills

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

1. C = 24 deg, a = 22.98 cm, b = 21.65 cm.
2. C = 64 deg, a = 38.38 cm, b = 30.76 cm.
3. B = 63 deg, a = 55.51 cm, c = 36.62 cm.
4. C = 26 deg, a = 29.08 cm, b = 27.03 cm.
5. a = 27.95 cm, b = 28.1 cm, c = 15.92 cm.
6. B = 60 deg, a = 32.58 cm, c = 33.24 cm.
7. a = 22.15 cm, b = 26.67 cm, c = 29.6 cm.
8. B = 86 deg, a = 64.74 cm, c = 37.42 cm.
9. C = 66 deg, a = 8.2 cm, b = 9.19 cm.
10. a = 77.8 cm, b = 77.8 cm, c = 42.89 cm.
11. A = 86 deg, b = 124.31 cm, c = 39.59 cm.
12. A = 60 deg, b = 41.33 cm, c = 43.91 cm.
13. A = 55 deg, b = 28.35 cm, c = 37.91 cm.
14. a = 19.13 cm, b = 24.3 cm, c = 24.66 cm.
15. B = 74 deg, a = 32.08 cm, c = 16.53 cm.

Answers

1. A=86 deg, B=70 deg, c=9.37 cm.
2. A=68 deg, B=48 deg, c=37.2 cm.
3. A=77 deg, C=40 deg, b=50.76 cm.
4. A=86 deg, B=68 deg, c=12.78 cm.
5. A=73 deg, B=74 deg, C=33 deg.
6. A=59 deg, C=61 deg, b=32.91 cm.
7. A=46 deg, B=60 deg, C=74 deg.
8. A=63 deg, C=31 deg, b=72.48 cm.
9. A=52 deg, B=62 deg, c=9.51 cm.
10. A=74 deg, B=74 deg, C=32 deg.
11. B=76 deg, C=18 deg, a=127.8 cm.
12. B=57 deg, C=63 deg, a=42.68 cm.
13. B=47 deg, C=78 deg, a=31.75 cm.
14. A=46 deg, B=66 deg, C=68 deg.
15. A=76 deg, C=30 deg, b=31.78 cm.