Trig Ratio Drills

Solve the triangle ABC given the following (C=90 deg for all questions). Round all angles to the nearest degree and all lengths to 2 decimal places.

1. B = 68 deg, a= 1.87 cm.

2. B = 2 deg, c= 5 cm.

3. B = 50 deg, c= 5 cm.

4. B = 80 deg, a= 0.87 cm.

5. B = 12 deg, b= 1.04 cm.

6. B = 89 deg, a= 0.09 cm.

7. B = 88 deg, a= 0.17 cm.

8. A = 35 deg, b= 4.1 cm.

9. a = 5 cm, b= 0.09 cm.

10. a = 4.37 cm, c= 5 cm.

11. b = 3.72 cm, c= 5 cm.

12. b = 4.96 cm, c= 5 cm.

13. b = 1.29 cm, c= 5 cm.

14. b = 2.72 cm, c= 5 cm.

15. b = 1.55 cm, c= 5 cm.

Answers
1. A=22 deg, b=4.64 cm, c=5 cm. 2. A=88 deg, a=5 cm, b=0.17 cm. 3. A=40 deg, a=3.21 cm, b=3.83 cm. 4. A=10 deg, b=4.92 cm, c=5 cm. 5. A=78 deg, a=4.89 cm, c=5 cm.6. A=1 deg, b=5 cm, c=5 cm. 7. A=2 deg, b=5 cm, c=5 cm. 8. B=55 deg, a=2.87 cm, c=5 cm. 9. A=89 deg, B=1 deg, c=5 cm. 10. A=61 deg, B=29 deg, b=2.42 cm. 11. A=42 deg, B=48 deg, a=3.35 cm. 12. A=7 deg, B=83 deg, a=0.61 cm. 13. A=75 deg, B=15 deg, a=4.83 cm. 14. A=57 deg, B=33 deg, a=4.19 cm. 15. A=72 deg, B=18 deg, a=4.76 cm.