

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. $B = 81$ deg, $a = 0.78$ cm.
2. $A = 86$ deg, $b = 0.35$ cm.
3. $A = 65$ deg, $a = 4.53$ cm.
4. $A = 78$ deg, $c = 5$ cm.
5. $B = 67$ deg, $c = 5$ cm.
6. $A = 5$ deg, $b = 4.98$ cm.
7. $A = 67$ deg, $a = 4.6$ cm.
8. $A = 32$ deg, $b = 4.24$ cm.
9. $b = 4.73$ cm, $c = 5$ cm.
10. $a = 4.97$ cm, $b = 0.52$ cm.
11. $a = 1.38$ cm, $c = 5$ cm.
12. $a = 3.99$ cm, $c = 5$ cm.
13. $a = 0.7$ cm, $b = 4.95$ cm.
14. $a = 3.35$ cm, $b = 3.72$ cm.
15. $a = 1.46$ cm, $c = 5$ cm.

Answers

1. $A=9$ deg, $b=4.94$ cm, $c=5$ cm. 2. $B=4$ deg, $a=4.99$ cm, $c=5$ cm. 3. $B=25$ deg, $b=2.11$ cm, $c=5$ cm. 4. $B=12$ deg, $a=4.89$ cm, $b=1.04$ cm. 5. $A=23$ deg, $a=1.95$ cm, $b=4.6$ cm. 6. $B=85$ deg, $a=0.44$ cm, $c=5$ cm. 7. $B=23$ deg, $b=1.95$ cm, $c=5$ cm. 8. $B=58$ deg, $a=2.65$ cm, $c=5$ cm. 9. $A=19$ deg, $B=71$ deg, $a=1.63$ cm. 10. $A=84$ deg, $B=6$ deg, $c=5$ cm. 11. $A=16$ deg, $B=74$ deg, $b=4.81$ cm. 12. $A=53$ deg, $B=37$ deg, $b=3.01$ cm. 13. $A=8$ deg, $B=82$ deg, $c=5$ cm. 14. $A=42$ deg, $B=48$ deg, $c=5$ cm. 15. $A=17$ deg, $B=73$ deg, $b=4.78$ cm.