

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. $A = 72$ deg, $b = 1.55$ cm.
2. $A = 11$ deg, $b = 4.91$ cm.
3. $B = 19$ deg, $a = 4.73$ cm.
4. $B = 47$ deg, $b = 3.66$ cm.
5. $A = 85$ deg, $a = 4.98$ cm.
6. $A = 55$ deg, $b = 2.87$ cm.
7. $A = 61$ deg, $c = 5$ cm.
8. $B = 49$ deg, $c = 5$ cm.
9. $b = 4.85$ cm, $c = 5$ cm.
10. $a = 0.52$ cm, $b = 4.97$ cm.
11. $b = 0.26$ cm, $c = 5$ cm.
12. $a = 2.42$ cm, $b = 4.37$ cm.
13. $b = 1.87$ cm, $c = 5$ cm.
14. $a = 3.35$ cm, $b = 3.72$ cm.
15. $a = 4.81$ cm, $b = 1.38$ cm.

Answers

1. $B=18$ deg, $a=4.76$ cm, $c=5$ cm. 2. $B=79$ deg, $a=0.95$ cm, $c=5$ cm. 3. $A=71$ deg, $b=1.63$ cm, $c=5$ cm. 4. $A=43$ deg, $a=3.41$ cm, $c=5$ cm. 5. $B=5$ deg, $b=0.44$ cm, $c=5$ cm. 6. $B=35$ deg, $a=4.1$ cm, $c=5$ cm. 7. $B=29$ deg, $a=4.37$ cm, $b=2.42$ cm. 8. $A=41$ deg, $a=3.28$ cm, $b=3.77$ cm. 9. $A=14$ deg, $B=76$ deg, $a=1.21$ cm. 10. $A=6$ deg, $B=84$ deg, $c=5$ cm. 11. $A=87$ deg, $B=3$ deg, $a=4.99$ cm. 12. $A=29$ deg, $B=61$ deg, $c=5$ cm. 13. $A=68$ deg, $B=22$ deg, $a=4.64$ cm. 14. $A=42$ deg, $B=48$ deg, $c=5$ cm. 15. $A=74$ deg, $B=16$ deg, $c=5$ cm.