

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. $B = 8$ deg, $a = 4.95$ cm.
2. $B = 27$ deg, $b = 2.27$ cm.
3. $B = 42$ deg, $a = 3.72$ cm.
4. $B = 73$ deg, $c = 5$ cm.
5. $B = 82$ deg, $c = 5$ cm.
6. $B = 48$ deg, $c = 5$ cm.
7. $A = 31$ deg, $c = 5$ cm.
8. $B = 40$ deg, $a = 3.83$ cm.
9. $a = 1.71$ cm, $c = 5$ cm.
10. $a = 4.97$ cm, $c = 5$ cm.
11. $b = 4.46$ cm, $c = 5$ cm.
12. $a = 1.79$ cm, $b = 4.67$ cm.
13. $a = 4.24$ cm, $c = 5$ cm.
14. $a = 2.5$ cm, $c = 5$ cm.
15. $a = 2.8$ cm, $b = 4.15$ cm.

Answers

1. $A=82$ deg, $b=0.7$ cm, $c=5$ cm. 2. $A=63$ deg, $a=4.46$ cm, $c=5$ cm. 3. $A=48$ deg, $b=3.35$ cm, $c=5$ cm. 4. $A=17$ deg, $a=1.46$ cm, $b=4.78$ cm. 5. $A=8$ deg, $a=0.7$ cm, $b=4.95$ cm. 6. $A=42$ deg, $a=3.35$ cm, $b=3.72$ cm. 7. $B=59$ deg, $a=2.58$ cm, $b=4.29$ cm. 8. $A=50$ deg, $b=3.21$ cm, $c=5$ cm. 9. $A=20$ deg, $B=70$ deg, $b=4.7$ cm. 10. $A=84$ deg, $B=6$ deg, $b=0.52$ cm. 11. $A=27$ deg, $B=63$ deg, $a=2.27$ cm. 12. $A=21$ deg, $B=69$ deg, $c=5$ cm. 13. $A=58$ deg, $B=32$ deg, $b=2.65$ cm. 14. $A=30$ deg, $B=60$ deg, $b=4.33$ cm. 15. $A=34$ deg, $B=56$ deg, $c=5$ cm.