

Math 1613 - Trigonometry

Discussion Board Week 8 - Due 2017.07.28

Solve each triangle using the law of sines or law of cosines (or both). If a problem does not have a solution, state as much.

1. $B = 132.4^\circ$, $C = 17.3^\circ$, $b = 67.7\text{ft}$
2. $A = 57.2^\circ$, $B = 112.0^\circ$, $c = 24.8\text{ft}$
3. $B = 66.5^\circ$, $a = 13.7\text{m}$, $c = 20.1\text{m}$
4. $C = 54.2^\circ$, $a = 112\text{ft}$, $b = 86.2\text{ft}$
5. $B = 84.4^\circ$, $C = 97.8^\circ$, $a = 12.3\text{cm}$
6. $A = 95.6^\circ$, $C = 86.3^\circ$, $b = 43.5\text{cm}$
7. $C = 66.4^\circ$, $b = 25.5\text{yd}$, $c = 25.5\text{yd}$
8. $B = 38.4^\circ$, $a = 11.5\text{m}$, $b = 14.0\text{m}$
9. $a = 10.5\text{in}$, $b = 5.23\text{in}$, $c = 9.66\text{in}$
10. $a = 15.0\text{ft}$, $b = 18\text{in}$, $c = 22\text{ft}$
11. $A = 112.4^\circ$, $b = 10.2\text{cm}$, $c = 18.7\text{cm}$
12. $B = 104.5^\circ$, $a = 17.2\text{mm}$, $c = 11.7\text{mm}$
13. $C = 80.3^\circ$, $a = 14.5\text{mm}$, $c = 10.0\text{mm}$
14. $B = 63.4^\circ$, $b = 50.5\text{in}$, $c = 64.6\text{in}$
15. $B = 123.6^\circ$, $C = 21.9^\circ$, $a = 108\text{cm}$