Math 1613 - Trigonometry

Discussion Board Week 8 - Due 2019.07.28

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. $B = 132.4°,\ C = 17.3°,\ b = 67.7\text{ft}$

2. $A = 57.2°,\ B = 112.0°,\ c = 24.8\text{ft}$

3. $B = 66.5°,\ a = 13.7\text{m},\ c = 20.1\text{m}$

4. $C = 54.2°,\ a = 112\text{ft},\ b = 86.2\text{ft}$

5. $B = 84.4°,\ C = 97.8°,\ a = 12.3\text{cm}$

6. $A = 95.6°,\ C = 86.3°,\ b = 43.5\text{cm}$

7. $C = 66.4°,\ b = 25.5\text{yd},\ c = 25.5\text{yd}$

8. $B = 38.4°,\ a = 11.5\text{m},\ b = 14.0\text{m}$

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. $A = 112.4°,\ b = 10.2\text{cm},\ c = 18.7\text{cm}$

12. $B = 104.5°,\ a = 17.2\text{mm},\ c = 11.7\text{mm}$

13. $C = 80.3°,\ a = 14.5\text{mm},\ c = 10.0\text{mm}$

14. $B = 63.4°,\ b = 50.5\text{in},\ c = 64.6\text{in}$

15. $B = 123.6°,\ C = 21.9°,\ a = 108\text{cm}$