

SM3H 7.2 Law of Cosines & Area of Triangles (odd answers)

1. $\alpha = 30.4^\circ$, $\beta = 28.3^\circ$, $c = 5.2$

3. $\alpha = 163.9^\circ$, $b = 4.5$, $\gamma = 10.5^\circ$

5. $\alpha = 52.0^\circ$, $b = 13.1$, $\gamma = 40.0^\circ$

7. $\alpha = 120^\circ$, $b = 3.5$, $c = 4.8$

9. yes, 1 triangle

11. 66.3 square units

13. 328.4 square units

15. 55.5 square inches

17. $x \approx 195.4$ km

19. $\theta \approx 79.9^\circ$

21. $x = 6, -6$ —rational