

Draw and label a triangle with the given parts. Then solve the triangle. Round to the nearest tenth. 3. a = 17.7, b = 15.6, c = 19.34. a = 6.2, b = 8.3, $\gamma = 31.9^{\circ}$

Draw and label a triangle with the given parts. Then solve the triangle. Round to the nearest tenth. 5. a = 20.4, c = 34.6, $\beta = 75^{\circ}$ 6. a = 36.6, b = 32.5, c = 59.2

7. a = 5.3, $\beta = 20^{\circ}$, $\gamma = 60^{\circ}$

Solve each problem.

8. What is the length of the chord intercepted by a central angle of 24° on a circle of radius 1.5 inches? Round to the nearest tenth of an inch.

9. John and Sarah left the airport at the same time. John flew at 180 mph on a course with bearing 65° and Sarah flew at 240 mph on a course with bearing 307°. How far apart were they after 3 hours?

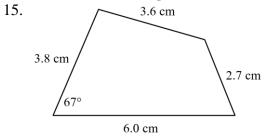
Find the area of each triangle with the given parts. Round to the nearest tenth. 10. b = 14.4, c = 8.1, $\alpha = 22.5^{\circ}$ 11. $\alpha = 41.5^{\circ}$, $\beta = 92.6^{\circ}$, c = 53.5

12. $\beta = 27.1^{\circ}, \gamma = 31.8^{\circ}, c = 8.2$

13. a = 4, b = 9, c = 7

14. a = 98.2, b = 47.3, c = 65.1

Find the area of the region to the nearest whole number of square units.



Solve the problem.

16. A surveyor locating the corners of a triangular piece of property started at one corner and walked 300 feet in the direction of S20°W to reach the next corner, then turned and walked S50°E to reach the next corner of the property. Finally, the surveyor walked in the direction N30°W to get back to the starting point. What is the area of the property in square feet? Round to the nearest tenth.