5-1 Practice

Angles and Degree Measure

Change each measure to degrees, minutes, and seconds.

1. $28.955°$

28° 57′ 18″

2. $-57.327°$

−57° 19′ 37.2″

Write each measure as a decimal degree to the nearest thousandth.

3. $32° 28′ 10″$

32.469°

4. $-73° 14′ 35″$

−73.243°

Give the angle measure represented by each rotation.

5. 1.5 rotations clockwise

−540°

6. 2.6 rotations counterclockwise

936°

Identify all angles that are coterminal with each angle. Then find one positive angle and one negative angle that are coterminal with each angle.

7. $43°$

**43° + 360k°;
sample answers:
763°; −317°**

8. $-30°$

**−30° + 360k°;
sample answers:
690°; −750°**

If each angle is in standard position, determine a coterminal angle that is between 0° and 360°, and state the quadrant in which the terminal side lies.

9. $472°$

112°; II

10. $-995°$

85°; I

Find the measure of the reference angle for each angle.

11. $227°$

47°

12. $640°$

80°

13. *Navigation* For an upcoming trip, Jackie plans to sail from Santa Barbara Island, located at 33° 28′ 32″ N, 119° 2′ 7″ W, to Santa Catalina Island, located at 33.386° N, 118.430° W. Write the latitude and longitude for Santa Barbara Island as decimals to the nearest thousandth and the latitude and longitude for Santa Catalina Island as degrees, minutes, and seconds.
**Santa Barbara Island: 33.476° N, 119.035° W
Santa Catalina Island: 33° 23′ 9.6″ N, 118° 25′ 48″ W**

5-1

Readin

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Example

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