

Practice**Angles and Degree Measure**

Change each measure to degrees, minutes, and seconds.

1. 28.955°

2. -57.327°

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

3. $32^\circ 28' 10''$

4. $-73^\circ 14' 35''$

Give the angle measure represented by each rotation.

5. 1.5 rotations clockwise

6. 2.6 rotations counterclockwise

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°

8. -30°

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°

10. -995°

Find the measure of the reference angle for each angle.

11. 227°

12. 640°

- 13. Navigation** For an upcoming trip, Jackie plans to sail from Santa Barbara Island, located at $33^\circ 28' 32''$ N, $119^\circ 2' 7''$ 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.