Name: _____

Date: _____ Class: Trigonometry, per: _____

Chapter 6: Co-terminal and Reference Angles - Worksheet & Review

Objective: I can identify coterminal angles, reduce angles to one revolution, determine quadrants, and find reference angles in degrees and radians.

1. Find the least positive angle coterminal with $725°$.	**2.** Find the least positive angle coterminal with $-110°$.
3. Find the least positive angle coterminal with $1110°$.	**4.** Find the least positive angle coterminal with $-765°$.
5. Find the least positive angle coterminal with $495°$.	**6.** Give one positive and one negative angle coterminal with $40°$.
7. Give one positive and one negative angle coterminal with $215°$.	**8.** Give one positive and one negative angle coterminal with $-35°$.
9. Give one positive and one negative angle coterminal with $305°$.	**10.** Give one positive and one negative angle coterminal with $-250°$.

Chapter 6: Co-terminal and Reference Angles - Worksheet & Review

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11. Write a formula for all angles coterminal with $70°$.	**12.** Write a formula for all angles coterminal with $-125°$.
13. Write a formula for all angles coterminal with $240°$.	**14.** Write a formula for all angles coterminal with $315°$.
15. Write a formula for all angles coterminal with $525°$.	**16.** Find the least positive angle coterminal with $\frac{17\pi}{6}$.
17. Find the least positive angle coterminal with $-\frac{7\pi}{4}$.	**18.** Find the least positive angle coterminal with $\frac{23\pi}{3}$.
19. Find the least positive angle coterminal with $-\frac{19\pi}{6}$.	**20.** Find the least positive angle coterminal with $\frac{29\pi}{4}$.

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21. Give one positive and one negative angle coterminal with $\frac{\pi}{3}$.	**22.** Give one positive and one negative angle coterminal with $\frac{5\pi}{6}$.
23. Give one positive and one negative angle coterminal with $-\frac{\pi}{4}$.	**24.** Give one positive and one negative angle coterminal with $\frac{7\pi}{5}$.
25. Give one positive and one negative angle coterminal with $\frac{11\pi}{6}$.	**26.** Find the reference angle for $130°$.
27. Find the reference angle for $225°$.	**28.** Find the reference angle for $310°$.
29. Find the reference angle for $95°$.	**30.** Find the reference angle for $348°$.

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31. Find the reference angle for $181°$.	**32.** Find the reference angle for $238°$.
33. Find the reference angle for $102°$.	**34.** Find the reference angle for $333°$.
35. Find the reference angle for $146°$.	**36.** Find the reference angle for $\frac{2\pi}{3}$.
37. Find the reference angle for $\frac{5\pi}{4}$.	**38.** Find the reference angle for $\frac{11\pi}{6}$.
39. Find the reference angle for $\frac{7\pi}{12}$.	**40.** Find the reference angle for $\frac{13\pi}{9}$.

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Objective: I can identify coterminal angles, reduce angles to one revolution, determine quadrants, and find reference angles in degrees and radians.

41. Find the reference angle for $\frac{17\pi}{10}$.	**42.** Find the reference angle for $\frac{19\pi}{12}$.
43. Find the reference angle for $\frac{8\pi}{5}$.	**44.** Find the reference angle for $\frac{11\pi}{8}$.
45. Find the reference angle for $\frac{7\pi}{5}$.	**46.** Reduce 845° to one revolution, then state its quadrant and reference angle.
47. Reduce -500° to one revolution, then state its quadrant and reference angle.	**48.** Reduce $\frac{25\pi}{6}$ to one revolution, then state its quadrant and reference angle.
49. Reduce $-\frac{13\pi}{4}$ to one revolution, then state its quadrant and reference angle.	**50.** Reduce $\frac{47\pi}{9}$ to one revolution, then state its quadrant and reference angle.