

9-2 Coterminal and Reference Angles

Name: _____

Time Start: _____ Finish: _____ Total Time = _____

In which quadrant are the following angles?

_____ 1. 50° _____ 2. 150° _____ 3. 250°

_____ 4. $\frac{\pi}{3}$ _____ 5. $\frac{5\pi}{4}$ _____ 6. $-\frac{\pi}{3}$

_____ 7. -250° _____ 8. -40° _____ 9. -150°

Give one negative and one positive coterminal angle for each given measurement.

10. -40° Positive = _____ Negative = _____

11. 440° Positive = _____ Negative = _____

12. $\frac{15\pi}{4}$ Positive = _____ Negative = _____

13. $-\frac{\pi}{3}$ Positive = _____ Negative = _____

Give the reference angle for each angle given.

_____ 14. 50° _____ 15. 150° _____ 16. 250°

_____ 17. $\frac{\pi}{3}$ _____ 18. $\frac{5\pi}{4}$ _____ 19. $-\frac{\pi}{3}$

_____ 20. -250° _____ 21. -40° _____ 22. -150°

SAT Questions

- _____ 23. Two sides of a triangle each have length 5. All of the following could be the length of the third side EXCEPT
- A. 1
 - B. 3
 - C. 4
 - D. $\sqrt{50}$
 - E. 10

- _____ 24. Consider the following numbers: 5, 6, 5, 6, 7, 5, 5, n , 6

For the numbers listed above, the only mode is 5 and the median is 6. Each of the following could be the value of n EXCEPT

- A. 6
- B. 7
- C. 8
- D. 9
- E. 10

- _____ 25. Three integers have a sum of 7 and a product of 0. If the difference of the greatest number and the least number is 11, then the least of these numbers is
- A. -18
 - B. -11
 - C. -9
 - D. -2
 - E. 0