

8-2 Coterminal and Reference Angles

Name _____

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°