Name _____ Date _____ Class _____

LESSON 13-3

Practice B

The Unit Circle

Convert each measure from degrees to radians or from radians to degrees.

1. $\frac{5\pi}{12}$

2. $215°$

3. $-\frac{29\pi}{18}$

4. $-180°$

5. $\frac{5\pi}{3}$

6. $-\frac{7\pi}{6}$

7. $400°$

8. $\frac{3\pi}{10}$

9. $35°$

Use the unit circle to find the exact value of each trigonometric function.

10. $\cos\frac{2\pi}{3}$

11. $\tan\frac{5\pi}{4}$

12. $\tan\frac{5\pi}{6}$

13. $\sin 315°$

14. $\cos 225°$

15. $\tan 60°$

Use a reference angle to find the exact value of the sine, cosine, and tangent of each angle.

16. $150°$

17. $-225°$

18. $-300°$

19. $\frac{11\pi}{6}$

20. $-\frac{2\pi}{3}$

21. $\frac{5\pi}{4}$

Solve.

22. San Antonio, Texas, is located about 30° north of the equator. If Earth's radius is about 3959 miles, approximately how many miles is San Antonio from the equator?