Practice: Trigonometry in the Unit Circle

Use the unit circle to state the cosine ratio for each of the following angle measures as a simplified fraction.

60° 1.

270°

Use the unit circle to state the sine ratio for each of the following angle measures as a simplified fraction.

5. 45°

6. π

Use the unit circle to state the tangent ratio for each of the following angle measures as a simplified fraction.

7. 30°

330°

Use the unit circle to state the given trigonometric ratio for each of the following angle measures as simplified fractions.

10. sin 30°

11. $\cos 60^{\circ}$

12. tan 45°

13. $\sin \frac{2\pi}{3}$

14. $\cos \frac{11\pi}{6}$

15. $\tan \frac{7\pi}{4}$

Use the unit circle to state the given trigonometric ratio for each of the following angle measures as simplified fractions.

Given the exact answer, work backwards to find the trig function and angle

22.
$$-\frac{\sqrt{3}}{2}$$

24.
$$-\frac{\sqrt{3}}{3}$$

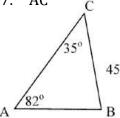
Solve without using a calculator. Answers should be exact.

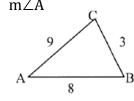
25.
$$\cos 240 = \frac{135}{s}$$

26. Sin 315 =
$$\frac{x}{12}$$

Review. Solve for the missing side.

27. AC





****QUIZ TOMORROW... YOU WILL NEED TO FILL IN A BLANK UNIT CIRCLE AND FIND THE SINE, COSINE, and TANGENT RATIOS OF CERTAIN DEGREE AND RADIAN MEASURES****