More Unit Circle

"I can evaluate all 6 trigonometric ratios"

I. Reciprocal Identities

A. $\sin\theta =$ _____ B. $\csc\theta =$ _____

C. $\cos\theta =$ _____ D. $\sec\theta =$ _____

E. $\tan\theta =$ _____ F. $\cot\theta =$ _____

II. How to Evaluate

A. Draw the rotation and identify the _____ angle or quadrantal.
B. Determine the basic ratio. If it is a reciprocal, _____ the fraction.
C. Determine the sign by using, _____ _____ _____ _____

III. Model Problems

GP	OYO
Evaluate $\sin 300^0$	Evaluate $\csc 300^0$
Evaluate $\cot 270^0$	Evaluate $\cos 180^0$
Evaluate $\sec 30^0$	Evaluate $\sec 300^0$
Evaluate $\csc 0^0$	Evaluate $\cot\left(-135^0\right)$
Solve $\sin 120° = \frac{r}{18}$	Solve $\cos 45° = \frac{18}{x}$

Name _____ Date _____ Period _____

PAP Geometry: Unit Circle Worksheet #2

Give the Exact Value of each without using a calculator.

1. $\cos 60^0$
2. $\sin 210^\circ$
3. $\tan 135^\circ$
4. $\csc 90^0$
5. $\sin\left(-330^0\right)$
6. $\sec\left(-45^0\right)$
7. $\sin 330^0$
8. $\sec\left(-45^0\right)$
9. $\cot\left(-150^0\right)$
10. $\cot 270^0$
11. $\sec 240^0$
12. $\cos\left(-240^0\right)$
13. $\cot 30^0$
14. $\cos 135^0$
15. $\sin 225^0$
16. $\tan 390^0$
17. $\cos\left(-60^0\right)$
18. $\tan 300^0$
19. $\sec 120^0$
20. $\tan 90^0$
21. $\sin\left(-270^\circ\right)$
22. $\csc\left(-135^\circ\right)$
23. $\sec 330^\circ$
24. $\cot\left(-180^0\right)$
25. $\csc\left(-225^\circ\right)$
26. $\cot 0^0$
27. $\csc 495^\circ$
28. $\csc 150^\circ$
29. $\cos 0^0$
30. $\sec 180^0$
31. $\sin\left(-180^\circ\right)$
32. $\tan 90^\circ$
33. $\tan\left(-315^\circ\right)$
34. $\csc 660^\circ$
35. $\cot 330^0$
36. $\sec 120^0$

Solve

37. $\cos 240^\circ = \frac{135}{s}$
38. $\sin 315^\circ = \frac{x}{12}$