Accel Math III   Worksheet #1: Exact Values of Angles   Name _Key_
Unit #5: Graphs and Inverses of Trig Functions
MA3A2a

Find the *exact* value of each trig function. Do not use any type of calculator.

1. $\cos 315°$ $\dfrac{\sqrt{2}}{2}$

2. $\sin 150°$ $\dfrac{1}{2}$

3. $\tan 210°$ $\dfrac{\sqrt{3}}{3}$

4. $\sec 90°$ $\varnothing$

5. $\cos 180°$ -1

6. $\sin 330°$ $\dfrac{-1}{2}$

7. $\csc 120°$ $\dfrac{2\sqrt{3}}{3}$

8. $\cot 240°$ $\dfrac{\sqrt{3}}{3}$

9. $\sec 135°$ $-\sqrt{2}$

10. $\cot 300°$ $\dfrac{-\sqrt{3}}{3}$

11. $\tan 240°$ $\sqrt{3}$

12. $\sec 270°$ $\varnothing$

13. $\sin 0°$ 0

14. $\cos \dfrac{\pi}{4}$ $\dfrac{\sqrt{2}}{2}$

15. $\sin \dfrac{2\pi}{3}$ $\dfrac{\sqrt{3}}{2}$

16. $\tan \dfrac{11\pi}{6}$ $\dfrac{-\sqrt{3}}{3}$

17. $\sec \dfrac{5\pi}{6}$ $\dfrac{-2\sqrt{3}}{3}$

18. $\csc \dfrac{5\pi}{4}$ $-\sqrt{2}$

19. $\cot \dfrac{7\pi}{4}$ -1

20. $\sin \dfrac{\pi}{2}$ 1

21. $\tan \dfrac{3\pi}{2}$ $\varnothing$

22. $\cot 2\pi$ $\varnothing$

23. $\sec \dfrac{3\pi}{4}$ $-\sqrt{2}$

24. $\csc \dfrac{5\pi}{3}$ $\dfrac{-2\sqrt{3}}{3}$

25. $\sec \dfrac{\pi}{6}$ $\dfrac{2\sqrt{3}}{3}$

26. $\cot \dfrac{\pi}{3}$ $\dfrac{\sqrt{3}}{3}$

27. $\sin (-135°)$ $\dfrac{-\sqrt{2}}{2}$

28. $\cos (-240°)$ $\dfrac{-1}{2}$

29. $\tan (-30°)$ $\dfrac{-\sqrt{3}}{3}$

30. $\sin 480°$ $\dfrac{\sqrt{3}}{2}$

31. $\cos 405°$ $\dfrac{\sqrt{2}}{2}$

32. $\tan 930°$ $\dfrac{\sqrt{3}}{3}$

33. $\cos 1035°$ $\dfrac{\sqrt{2}}{2}$