

Evaluate each of the following. Find the letter which corresponds to each answer and write that letter in the appropriate space provided.

Why do so many students study trigonometry?

1. $\csc \frac{\pi}{6} =$
2. $\sin \frac{11\pi}{6} =$
3. $\tan \frac{4\pi}{3} =$
4. $\cos \frac{11\pi}{6} =$
5. $\sec \frac{5\pi}{3} =$
6. $\sin \frac{3\pi}{4} =$
7. $\csc \frac{7\pi}{6} =$
8. $\cos \frac{4\pi}{3} =$
9. $\sin \frac{\pi}{5} =$
10. $\sec \frac{7\pi}{4} =$

Because

1	2	3	4	5	6	7	8	9	10
$I = 2$	$R = \frac{\sqrt{3}}{2}$	$H = -2$	$T = -\frac{1}{2}$	$G = \frac{1}{2}$	$N = \sqrt{2}$	$O = 1$	$F = \frac{1}{2}$	$A = \frac{1}{2}$	$C = \frac{1}{\sqrt{3}}$
									$S = \sqrt{3}$
									$E = -\frac{\sqrt{3}}{2}$

Did you hear about the girl who backed into a fan?

1. $\sin 240 =$
2. $\cos 315 =$
3. $\tan 135 =$
4. $\cot 225 =$
5. $\tan 315 =$
6. $\sec 210 =$
7. $\sin 150 =$
8. $\csc 120 =$

1	2	3	4	5	6	7	8
$E = \frac{1}{2}$	$B = -\frac{1}{2}$	$I = \frac{1}{2}$	$D = \frac{-\sqrt{3}}{2}$	$C = \sqrt{3}$	$A = 1$	$T = \frac{-2}{\sqrt{3}}$	$S = -1$
							$R = \frac{2}{\sqrt{3}}$

Name: _____ Period _____

Find θ ($0 \leq \theta < 2\pi$):

1. $\cos \theta = \frac{1}{2}$

2. $\sin \theta = -1$

3. $\tan \theta = \sqrt{3}$

4. $\cos 30^\circ =$

5. $\cos 45^\circ =$

6. $\csc 315^\circ =$

7. $\sin 0^\circ =$

8. $\cos 90^\circ =$

9. $\csc 210^\circ =$

10. $\cot 0^\circ =$

11. $\tan 120^\circ =$

12. $\sec 330^\circ =$

13. $\csc 270^\circ =$

14. $\cot 135^\circ =$

15. $\tan \frac{\pi}{6} =$

16. $\cot \frac{5\pi}{4} =$

17. $\sin \frac{5\pi}{4} =$

18. $\sin \frac{5\pi}{6} =$

19. $\cos \frac{\pi}{4} =$

20. $\tan \frac{5\pi}{3} =$

21. $\sec \frac{7\pi}{4} =$

22. $\sec \pi =$

23. $\sec -\frac{\pi}{3} =$

25. $\cot -\frac{3\pi}{2} =$

26. $\cos \frac{7\pi}{4} =$

27. $\csc \frac{5\pi}{6} =$

28. $\tan \frac{2\pi}{3} =$

Find θ ($0 \leq \theta < 2\pi$):

29. $\csc \theta = 3.256$

30. $\cot \theta = .21686$

31. $\cos \theta = -.782$

32. $\tan \theta = -1.212$