

H-Pre-Calculus  
Trig Values Worksheet

Evaluate each of the following -- exact values only. Do these without using your unit circle.

1.  $\sin\left(\frac{5\pi}{6}\right)$

2.  $\cos\left(\frac{5\pi}{3}\right)$

3.  $\sin\left(\frac{-5\pi}{4}\right)$

4.  $\cos\left(\frac{3\pi}{4}\right)$

5.  $\sin\left(\frac{11\pi}{3}\right)$

6.  $\cos\left(\frac{5\pi}{2}\right)$

7.  $\cos\left(\frac{-4\pi}{3}\right)$

8.  $\sin\left(\frac{-2\pi}{3}\right)$

9.  $\sin\left(\frac{15\pi}{4}\right)$

10.  $\cos\left(\frac{7\pi}{6}\right)$

11.  $\sin\left(\frac{3\pi}{2}\right)$

12.  $\cos(-\pi)$

13.  $\tan\left(\frac{5\pi}{4}\right)$

14.  $\tan\left(\frac{-\pi}{3}\right)$

15.  $\tan\left(\frac{7\pi}{6}\right)$

16.  $\tan(\pi)$

17.  $\tan\left(\frac{2\pi}{3}\right)$

18.  $\tan\left(\frac{\pi}{2}\right)$

19.  $\tan\left(\frac{7\pi}{4}\right)$

20.  $\tan\left(\frac{11\pi}{6}\right)$

21.  $\sec(2\pi)$

22.  $\csc\left(-\frac{\pi}{6}\right)$

23.  $\cot\left(\frac{8\pi}{3}\right)$

24.  $\sec\left(\frac{4\pi}{3}\right)$

25.  $\csc(3\pi)$

26.  $\cot\left(\frac{7\pi}{6}\right)$

27.  $\sec\left(\frac{-\pi}{2}\right)$

28.  $\csc\left(\frac{3\pi}{2}\right)$

29.  $\cot\left(\frac{3\pi}{2}\right)$

30.  $\sec\left(-\frac{5\pi}{6}\right)$

31.  $\csc\left(-\frac{3\pi}{4}\right)$

32.  $\cot(-\pi)$

Evaluate each of the following -- exact values only.

33.  $\cot\left(\frac{\pi}{2}\right) + 3\sin\left(\frac{3\pi}{2}\right)$

34.  $\tan(0) - 6\sin\left(\frac{\pi}{2}\right)$

35.  $3\sec(\pi) - 5\tan(4\pi)$

36.  $4\csc\left(\frac{3\pi}{2}\right) + 3\cos(\pi)$

37.  $2\sec(0) + 4\cot^2\left(\frac{\pi}{2}\right) + \cos(2\pi)$

38.  $\sin^2\left(\frac{2\pi}{3}\right) + \cos^2\left(\frac{2\pi}{3}\right)$

39.  $\cot^2\left(\frac{3\pi}{4}\right) - \sin\left(\frac{\pi}{6}\right) + 4\tan\left(\frac{\pi}{4}\right)$

40.  $\cos^2\left(\frac{\pi}{3}\right) + \sec^2\left(\frac{5\pi}{6}\right) - \csc^2\left(\frac{7\pi}{6}\right)$

41.  $\cot\left(\frac{\pi}{6}\right) + \tan\left(\frac{\pi}{3}\right) - \sin\left(\frac{4\pi}{3}\right)$

42.  $\sin^2\left(\frac{5\pi}{4}\right) - \cos^2\left(\frac{3\pi}{2}\right) + \tan\left(\frac{4\pi}{3}\right)$