

CAT  
Evaluating Trig Functions  
Worksheet #1

Name \_\_\_\_\_

evens!

Find the exact value of each of the following. NO CALCULATORS!!!

1.  $\sin 60^\circ$   $\sqrt{3}/2$

2.  $\sec 135^\circ$   $-\sqrt{2}$

3.  $\cos 45^\circ$   $\sqrt{2}/2$

4.  $\csc 300^\circ$   $-\frac{2\sqrt{3}}{3}$

5.  $\sec 210^\circ$   $-\frac{2\sqrt{3}}{3}$

6.  $\tan 315^\circ$   $-1$

7.  $\cos 360^\circ$   $1$

8.  $\csc 240^\circ$   $-\frac{2\sqrt{3}}{3}$

9.  $\tan 210^\circ$   $\sqrt{3}/3$

10.  $\cos -60^\circ$   $1/2$

11.  $\sec 45^\circ$   $\sqrt{2}$

12.  $\cot 240^\circ$   $\sqrt{3}/3$

13.  $\sin 150^\circ$   $1/2$

14.  $\cos -90^\circ$   $0$

15.  $\tan 300^\circ$   $-\sqrt{3}$

16.  $\tan -120^\circ$   $\sqrt{3}$

17.  $\csc 150^\circ$   $2$

\* 18.  $\cot 90^\circ$   $0$

19.  $\sin 240^\circ$   $-\sqrt{3}/2$

20.  $\cos 120^\circ$   $-1/2$

21.  $\cot 225^\circ$   $1$

22.  $\sin 180^\circ$   $0$

23.  $\sec 30^\circ$   $2\sqrt{3}/3$

24.  $\cot 150^\circ$   $-\sqrt{3}$

25.  $\csc -135^\circ$   $-\sqrt{2}$

\* 26.  $\sec 270^\circ$  *undefined*

27.  $\cos 210^\circ$   $-\sqrt{3}/2$

28.  $\sin 0^\circ$   $0$

29.  $\sec 315^\circ$   $\sqrt{2}$

30.  $\csc 330^\circ$   $-2$

CAT  
Evaluating Trig Functions  
Worksheet #2

Name \_\_\_\_\_

1.  $\sin \frac{\pi}{2}$  1

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

3.  $\cos \frac{5\pi}{3}$   $\frac{1}{2}$

4.  $\csc \frac{7\pi}{6}$   $-2$

5.  $\sec \pi$   $-1$

6.  $\tan \frac{\pi}{6}$   $\frac{\sqrt{3}}{3}$

7.  $\cos \frac{7\pi}{4}$   $\frac{\sqrt{2}}{2}$

8.  $\csc \frac{-2\pi}{3}$   $-\frac{2\sqrt{3}}{3}$

9.  $\tan \frac{3\pi}{4}$   $-1$

10.  $\cos 2\pi$  1

11.  $\sec \frac{4\pi}{3}$   $-2$

12.  $\cot \frac{11\pi}{6}$   $-\sqrt{3}$

13.  $\sin 0$  0

14.  $\cos \frac{-7\pi}{6}$   $-\frac{\sqrt{3}}{2}$

15.  $\tan \frac{\pi}{2}$  undefined

16.  $\tan \frac{5\pi}{4}$  1

17.  $\csc \frac{3\pi}{4}$   $\sqrt{2}$

18.  $\cot \frac{4\pi}{3}$   $\frac{\sqrt{3}}{3}$

19.  $\sin \frac{3\pi}{2}$   $-1$

20.  $\cos \frac{5\pi}{4}$   $-\frac{\sqrt{2}}{2}$

21.  $\cot \frac{7\pi}{6}$   $\sqrt{3}$

22.  $\sin \frac{-\pi}{6}$   $-\frac{1}{2}$

23.  $\sec \frac{2\pi}{3}$   $-2$

\* 24.  $\cot \frac{3\pi}{2}$  0

\* 25.  $\csc 2\pi$  undefined

26.  $\sec \frac{2\pi}{3}$   $-2$

27.  $\cos \frac{\pi}{2}$  0

28.  $\sin \frac{7\pi}{4}$   $-\frac{\sqrt{2}}{2}$

29.  $\sec \frac{11\pi}{6}$   $\frac{2\sqrt{3}}{3}$

30.  $\csc \frac{\pi}{3}$   $\frac{2\sqrt{3}}{3}$