

Name: _____

Problem Set 3.6

Follow all directions and show all of your work in order to receive full credit. In the blank space below, write all of the information you need to evaluate trigonometric expressions (triangles or circle) to reference as you work.

1 - 24] Find the exact value of the following trigonometric expressions.

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

2) $\sin\left(\frac{11\pi}{6}\right)$

3) $\cot(0^\circ)$

4) $\sec\left(\frac{3\pi}{2}\right)$

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

6) $\sin(210^\circ)$

7) $\cot(\pi)$

8) $\csc\left(-\frac{5\pi}{4}\right)$

9) $\cos(90^\circ)$

10) $\sin\left(\frac{4\pi}{3}\right)$

11) $\tan(-\pi)$

12) $\csc(-90^\circ)$

13) $\sec\left(\frac{-11\pi}{6}\right)$

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

15) $\sec(30^\circ)$

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

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

18) $\tan(150^\circ)$

19) $\cos\left(\frac{5\pi}{4}\right)$

20) $\sec\left(\frac{7\pi}{6}\right)$

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

22) $\csc\left(\frac{5\pi}{4}\right)$

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

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

