

**5.2 Sine and Cosine**

Find the exact value of the following trigonometric expressions.

1.  $\sin 0$

2.  $\cos 0$

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

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

5.  $\sin \pi$

6.  $\cos \pi$

7.  $\sin \frac{3\pi}{2}$

8.  $\cos \frac{3\pi}{2}$

9.  $\sin \frac{\pi}{4}$

10.  $\sin \frac{\pi}{6}$

11.  $\cos \frac{\pi}{3}$

12.  $\sin \frac{4\pi}{3}$

13.  $\cos \frac{5\pi}{6}$

14.  $\sin \frac{3\pi}{4}$

15.  $\cos \frac{7\pi}{6}$

16.  $\sin \frac{11\pi}{6}$

17.  $\cos -\frac{\pi}{6}$

18.  $\sin \frac{3\pi}{4}$

19.  $\cos \frac{11\pi}{6}$

20.  $\sin \frac{2\pi}{3}$

21.  $\cos \frac{7\pi}{6}$

22.  $\sin \frac{5\pi}{3}$

23.  $\cos \frac{5\pi}{6}$