

## 6.9 More Exact Values

Name: \_\_\_\_\_

Find the exact value of each expression.

1.  $\tan(-225^\circ)$

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

3.  $\csc\left(-\frac{17\pi}{6}\right)$

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

5.  $\cos 90^\circ + 5 \sin 270^\circ$

6.  $2 \sin \frac{3\pi}{2} - 3 \cos \pi$

7.  $2 \tan 45^\circ - \frac{3}{2} \tan(-225^\circ)$

8.  $\sin \frac{2\pi}{3} - \cos \frac{4\pi}{3}$

9.  $5 \sin \frac{11\pi}{6} - 2 \cos\left(-\frac{\pi}{6}\right)$

10.  $\cot^2 330^\circ - \csc^2 330^\circ$

11.  $-5\cot^2 150^\circ - 2\sin^2 120^\circ$

12.  $\sin \frac{2\pi}{3} \cos \frac{\pi}{6} + \cos \frac{2\pi}{3} \sin \frac{\pi}{6}$

13.  $\frac{\sec 120^\circ}{\cos 120^\circ}$

14.  $\frac{\cos \frac{5\pi}{3}}{\sin \frac{4\pi}{3}}$

15.  $\sin^2 \frac{7\pi}{6} + \cos^2 \frac{\pi}{4}$

16.  $\tan^2 \frac{2\pi}{3} \left( 1 - \tan^2 \frac{7\pi}{6} \right)$

17. If  $\tan x = -\frac{2}{5}$  and  $x$  lies in QII, what is the value of  $\cos x$ ?

18. If  $\sin x = -\frac{3}{4}$  and  $\tan x > 0$ , what is the value of  $\cos x$ ?