

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

Sheet 1

## Even / Odd Identities

Use even-odd identities to find the exact value of each trigonometric expression.

1)  $9 \sin\left(-\frac{\pi}{2}\right)$

2)  $\sin(-60^\circ) + \cos(-45^\circ)$

3)  $4 \cos 90^\circ (\csc(-90^\circ) - \sec(-60^\circ))$

4)  $\frac{\cot(-60^\circ)}{6}$

5)  $\cos(-30^\circ) + \frac{\csc(-60^\circ)}{\sin(-90^\circ)}$

6)  $-5 \sec\left(-\frac{\pi}{4}\right) \csc\left(-\frac{\pi}{3}\right)$

7)  $\frac{2}{5} + \tan\left(-\frac{\pi}{3}\right)$

8)  $\frac{\cot(-60^\circ) \csc(-45^\circ)}{\tan(-30^\circ) \sec 0^\circ}$

**Even / Odd Identities**

Use even-odd identities to find the exact value of each trigonometric expression.

1)  $9 \sin\left(-\frac{\pi}{2}\right)$

**-9**

2)  $\sin(-60^\circ) + \cos(-45^\circ)$

 **$\frac{\sqrt{2} - \sqrt{3}}{2}$** 

3)  $4 \cos 90^\circ (\csc(-90^\circ) - \sec(-60^\circ))$

**0**

4)  $\frac{\cot(-60^\circ)}{6}$

 **$-\frac{\sqrt{3}}{18}$** 

5)  $\cos(-30^\circ) + \frac{\csc(-60^\circ)}{\sin(-90^\circ)}$

 **$\frac{7\sqrt{3}}{6}$** 

6)  $-5 \sec\left(-\frac{\pi}{4}\right) \csc\left(-\frac{\pi}{3}\right)$

 **$\frac{10\sqrt{6}}{3}$** 

7)  $\frac{2}{5} + \tan\left(-\frac{\pi}{3}\right)$

 **$\frac{2 - 5\sqrt{3}}{5}$** 

8)  $\frac{\cot(-60^\circ) \csc(-45^\circ)}{\tan(-30^\circ) \sec 0^\circ}$

 **$-\sqrt{2}$**