

**Sum and Difference Identities (sine, cosine, tangent)**

Use the angle sum or difference identity to find the exact value of each.

1)  $\cos -\frac{\pi}{12}$

2)  $\cos 165^\circ$

3)  $\cos \frac{5\pi}{12}$

4)  $\sin \frac{7\pi}{12}$

5)  $\tan 165^\circ$

6)  $\cos -\frac{7\pi}{12}$

7)  $\sin 165^\circ$

8)  $\tan -15^\circ$

9)  $\tan 15^\circ$

10)  $\tan 255^\circ$

11)  $\sin 285^\circ$

12)  $\cos 105^\circ$

13)  $\sin 105^\circ$

14)  $\sin \frac{17\pi}{12}$

15)  $\sin \frac{11\pi}{12}$