

Review Quiz Sum & Difference

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

1) $\sin 75^\circ$

2) $\cos \frac{17\pi}{12}$

3) $\sin \frac{13\pi}{12}$

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

4) $\cos -75^\circ$

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

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

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

7) $\cos 195^\circ$

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

9) $\sin -15^\circ$

10) $\sin \frac{5\pi}{12}$

11) $\tan -\frac{5\pi}{12}$

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

13) Find the exact value of the trigonometric function given the following information:

$$\tan u = 4/3; \pi < u < 3\pi/2 \text{ and } \sin v = 7/25; \pi/2 < v < \pi$$

a) $\sin(u-v)$

b) $\cos(u-v)$

c) $\tan(u+v)$