

Name : _____

Sum Identities

Sheet 1

Find the exact value.

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

2) $\tan 75^\circ$

3) $\cos 465^\circ$

4) $\sin 435^\circ$

5) $\tan 105^\circ$

6) $\cos \frac{17\pi}{6}$

Name : _____

Answer key

Sheet 1

Sum Identities

Find the exact value.

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

$$\frac{\sqrt{6} - \sqrt{2}}{4}$$

2) $\tan 75^\circ$

$$2 + \sqrt{3}$$

3) $\cos 465^\circ$

$$\frac{\sqrt{2} - \sqrt{6}}{4}$$

4) $\sin 435^\circ$

$$\frac{\sqrt{2} + \sqrt{6}}{4}$$

5) $\tan 105^\circ$

$$-(2 + \sqrt{3})$$

6) $\cos \frac{17\pi}{6}$

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