

Name : _____

Cofunction Identities

Sheet 1

Complete the following using cofunctions of complementary angle theorem.

1) $\cos 34^\circ = \sin$ _____

2) $\cot \frac{7\pi}{30} = \tan$ _____

3) $\sec \frac{11\pi}{36} = \csc$ _____

4) $\sin 67^\circ = \cos$ _____

5) $\tan \frac{7\pi}{60} = \cot$ _____

6) $\cos 75^\circ = \sin$ _____

7) $\sin 41^\circ = \cos$ _____

8) $\csc \frac{\pi}{2} = \sec$ _____

9) $\cot \frac{16\pi}{45} = \tan$ _____

10) $\tan 80^\circ = \cot$ _____

11) $\csc \frac{2\pi}{5} = \sec$ _____

12) $\sec 22^\circ = \csc$ _____

Name : _____

Answer key

Cofunction Identities

Sheet 1

Complete the following using cofunctions of complementary angle theorem.

1) $\cos 34^\circ = \sin$ **56°**

2) $\cot \frac{7\pi}{30} = \tan$ **$\frac{4\pi}{15}$**

3) $\sec \frac{11\pi}{36} = \csc$ **$\frac{7\pi}{36}$**

4) $\sin 67^\circ = \cos$ **23°**

5) $\tan \frac{7\pi}{60} = \cot$ **$\frac{23\pi}{60}$**

6) $\cos 75^\circ = \sin$ **15°**

7) $\sin 41^\circ = \cos$ **49°**

8) $\csc \frac{\pi}{2} = \sec$ **0**

9) $\cot \frac{16\pi}{45} = \tan$ **$\frac{13\pi}{90}$**

10) $\tan 80^\circ = \cot$ **10°**

11) $\csc \frac{2\pi}{5} = \sec$ **$\frac{\pi}{10}$**

12) $\sec 22^\circ = \csc$ **68°**