

Student Name: _____

Score: _____

Answer key

Find the exact value of a given trigonometric ratio

Sheet 1

$$\sin \frac{\pi}{2} = 1$$

$$\cos \frac{\pi}{2} = 0$$

$$\tan \frac{\pi}{6} = \frac{1}{\sqrt{3}} \text{ or } \frac{\sqrt{3}}{3}$$

$$\sin \frac{\pi}{3} = \frac{\sqrt{3}}{2}$$

$$\cot 0 = \infty$$

$$\sec \frac{\pi}{4} = \sqrt{2}$$

$$\csc \frac{\pi}{6} = 2$$

$$\tan \frac{\pi}{2} = \infty$$

$$\cos \frac{\pi}{4} = \frac{1}{\sqrt{2}} \text{ or } \frac{\sqrt{2}}{2}$$

$$\cos \frac{\pi}{3} = \frac{1}{2}$$

$$\csc \frac{\pi}{4} = \sqrt{2}$$

$$\tan \frac{\pi}{4} = 1$$

$$\tan 0 = 0$$

$$\cos \frac{\pi}{6} = \frac{\sqrt{3}}{2}$$

$$\sec \frac{\pi}{2} = \infty$$

$$\cot \frac{\pi}{2} = 0$$

$$\csc \frac{\pi}{3} = \frac{2}{\sqrt{3}} \text{ or } \frac{2\sqrt{3}}{3}$$

$$\sin \frac{\pi}{6} = \frac{1}{2}$$

$$\sec \frac{\pi}{6} = \frac{2}{\sqrt{3}} \text{ or } \frac{2\sqrt{3}}{3}$$

$$\tan \frac{\pi}{3} = \sqrt{3}$$

$$\csc \frac{\pi}{2} = 1$$

$$\cot \frac{\pi}{4} = 1$$

$$\sec \frac{\pi}{3} = 2$$

$$\cot \frac{\pi}{6} = \sqrt{3}$$