

Student Name: \_\_\_\_\_

Score: \_\_\_\_\_

**Find the exact value of a given trigonometric ratio**

Sheet 1

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

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

$$\tan \frac{\pi}{6} =$$

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

$$\cot 0 =$$

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

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

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

$$\cos \frac{\pi}{4} =$$

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

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

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

$$\tan 0 =$$

$$\cos \frac{\pi}{6} =$$

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

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

$$\csc \frac{\pi}{3} =$$

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

$$\sec \frac{\pi}{6} =$$

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

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

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

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

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

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**Answer key**

**Find the exact value of a given trigonometric ratio**

Sheet 1

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

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

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

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

$$\cot 0 = \infty$$

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

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

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

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

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

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

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

$$\tan 0 = 0$$

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

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

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

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

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

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

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

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

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

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

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