

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

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

**Trigonometric ratios for a given angle**

Find the value of a given trigonometric ratio:

$$\sin 30^\circ =$$

$$\csc 60^\circ =$$

$$\cos 45^\circ =$$

$$\tan 60^\circ =$$

$$\cot 60^\circ =$$

$$\sec 30^\circ =$$

$$\sec 45^\circ =$$

$$\cot 45^\circ =$$

$$\csc 0^\circ =$$

$$\sin 0^\circ =$$

$$\tan 30^\circ =$$

$$\tan 90^\circ =$$

$$\cot 90^\circ =$$

$$\cos 90^\circ =$$

$$\cos 0^\circ =$$

$$\csc 30^\circ =$$

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**Answers:**

Find the value of a given trigonometric ratio:

$$\sin 30^\circ = \frac{1}{2}$$

$$\csc 60^\circ = \frac{2}{\sqrt{3}} \text{ or } \frac{2\sqrt{3}}{3}$$

$$\cos 45^\circ = \frac{1}{\sqrt{2}} \text{ or } \frac{\sqrt{2}}{2}$$

$$\tan 60^\circ = \sqrt{3}$$

$$\cot 60^\circ = \frac{1}{\sqrt{3}} \text{ or } \frac{\sqrt{3}}{3}$$

$$\sec 30^\circ = \frac{2}{\sqrt{3}} \text{ or } \frac{2\sqrt{3}}{3}$$

$$\sec 45^\circ = \sqrt{2}$$

$$\cot 45^\circ = 1$$

$$\csc 0^\circ = \text{infinity}$$

$$\sin 0^\circ = 0$$

$$\tan 30^\circ = \frac{1}{\sqrt{3}} \text{ or } \frac{\sqrt{3}}{3}$$

$$\tan 90^\circ = \text{infinity}$$

$$\cot 90^\circ = 0$$

$$\cos 90^\circ = 0$$

$$\cos 0^\circ = 1$$

$$\csc 30^\circ = 2$$