

Directions: Identify equivalent values for each of the following radian measures.

1. $\frac{\pi}{2} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

2. $\underline{\hspace{2cm}} = 3\pi = \underline{\hspace{2cm}}$

3. $\underline{\hspace{2cm}} = \underline{\hspace{2cm}} = \frac{11\pi}{2}$

4. $12\pi = \underline{\hspace{2cm}}$

Directions: Identify the value of each trigonometric function at the given radian value.

5. $\cos \frac{\pi}{2} = \underline{\hspace{2cm}}$

6. $\sin \frac{\pi}{6} = \underline{\hspace{2cm}}$

7. $\cos \frac{5\pi}{3} = \underline{\hspace{2cm}}$

8. $\cos \frac{7\pi}{4} = \underline{\hspace{2cm}}$

9. $\sin \frac{\pi}{3} = \underline{\hspace{2cm}}$

10. $\sin \frac{\pi}{2} = \underline{\hspace{2cm}}$

11. $\sin 0 = \underline{\hspace{2cm}}$

12. $\cos 4\pi = \underline{\hspace{2cm}}$

13. $\sin \frac{\pi}{4} = \underline{\hspace{2cm}}$

14. $\cos \frac{5\pi}{2} = \underline{\hspace{2cm}}$

15. $\cos \pi = \underline{\hspace{2cm}}$

Key

Directions: Identify equivalent values for each of the following radian measures.

$$1. \quad \frac{\pi}{2} = \frac{5\pi}{2} = \frac{9\pi}{2}$$

$$2. \quad \pi = 3\pi = 5\pi$$

$$3. \quad \frac{3\pi}{2} = \frac{7\pi}{2} = \frac{11\pi}{2}$$

$$4. \quad 12\pi = 0$$

Directions: Identify the value of each trigonometric function at the given radian value.

$$5. \quad \cos \frac{\pi}{2} = 0$$

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

$$7. \quad \cos \frac{5\pi}{3} = \frac{1}{2}$$

$$8. \quad \cos \frac{7\pi}{4} = \frac{\sqrt{2}}{2}$$

$$9. \quad \sin \frac{\pi}{3} = \frac{\sqrt{3}}{2}$$

$$10. \quad \sin \frac{\pi}{2} = 1$$

$$11. \quad \sin 0 = 0$$

$$12. \quad \cos 4\pi = 1$$

$$13. \quad \sin \frac{\pi}{4} = \frac{\sqrt{2}}{2}$$

$$14. \quad \cos \frac{5\pi}{2} = 0$$

$$15. \quad \cos \pi = -1$$