

Unit 7: Trigonometric Functions

CONCEPT

Name: _____ Date: _____

Use the unit circle, where a point is written $(\cos \theta, \sin \theta)$. Give each answer as a short exact value; use $\text{sqrt}()$ for square roots and reduce fractions.

1. On the unit circle, the point for angle θ is $(\cos \theta, \sin \theta)$. Give the coordinates of the point at $\theta = 0^\circ$.

Answer: _____

2. Evaluate $\cos(0^\circ)$.

Answer: _____

3. Evaluate $\sin(90^\circ)$.

Answer: _____

4. Evaluate $\sin(0^\circ)$.

Answer: _____

5. Evaluate $\cos(90^\circ)$.

Answer: _____

6. Evaluate $\sin(30^\circ)$.

Answer: _____

7. Evaluate $\cos(60^\circ)$.

Answer: _____

8. Evaluate $\cos(45^\circ)$.

Answer: _____

9. Evaluate $\sin(60^\circ)$.

Answer: _____

10. Evaluate $\tan(45^\circ)$.

Answer: _____

11. Evaluate $\tan(0^\circ)$.

Answer: _____

12. On the unit circle a point has coordinates (x, y) . Which coordinate equals $\sin \theta$, x or y ?

Answer: _____