

Unit 7: Trigonometric Functions

PRACTICE

Name: _____ Date: _____

Evaluate each using the unit circle. Give exact values (fractions, square roots as $\sqrt{}$), or coordinates; rationalize where needed.

1. Find the exact value of $\sin(30^\circ)$.

Answer: _____

2. Find the exact value of $\cos(60^\circ)$.

Answer: _____

3. Find the exact value of $\tan(45^\circ)$.

Answer: _____

4. Find the exact value of $\cos(90^\circ)$.

Answer: _____

5. Find the exact value of $\sin(\pi/2)$.

Answer: _____

6. Find the exact value of $\cos(0)$.

Answer: _____

7. Find the exact value of $\sin(45^\circ)$.

Answer: _____

8. Find the exact value of $\cos(30^\circ)$.

Answer: _____

9. Find the exact value of $\tan(60^\circ)$.

Answer: _____

10. The terminal point of angle 180° on the unit circle is the coordinate pair $(\cos(180^\circ), \sin(180^\circ))$. Give this coordinate pair.

Answer: _____

11. Find the exact value of $\tan(30^\circ)$. Rationalize the denominator.

Answer: _____

12. Find the exact value of $\sin(270^\circ)$.

Answer: _____