

# Pre-Calculus Fundamentals

Pre-Calculus · Practice Test · 12 Questions

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**1. What is the value of  $\sin(\pi/2)$ ?**

- A) 0
- B) 1
- C)  $1/2$
- D) -1

**2. The graph of  $y = x^2$  is a parabola opening in which direction?**

- A) Down
- B) Left
- C) Up
- D) Right

**3. What is the slope of a horizontal line?**

- A) Undefined
- B) 1
- C) Negative infinity
- D) 0

**4. Which of the following is NOT a trigonometric function?**

- A) Sine
- B) Cosine
- C) Tangent
- D) Logarithm

**5. What is the domain of the function  $f(x) = \sqrt{x}$ ?**

- A) All real numbers
- B)  $x \geq 0$
- C)  $x > 0$
- D) All negative real numbers

**6. What is the reciprocal of 5?**

- A) -5
- B)  $1/5$
- C) 5
- D) 0

**7. In the unit circle, an angle of 180 degrees corresponds to which coordinate?**

- A) (0, 1)
- B) (1, 0)
- C) (-1, 0)
- D) (0, -1)

**8. What is the product of any number and zero?**

- A) The number itself
- B) Undefined
- C) Zero
- D) One

**9. What is the degree measure of a right angle?**

- A)  $45^\circ$
- B)  $90^\circ$
- C)  $180^\circ$
- D)  $360^\circ$

**10. What is the value of  $\log_2(8)$ ?**

- A) 1
- B) 2
- C) 3
- D) 4

**11. A function that is symmetric with respect to the y-axis is called:**

- A) Odd
- B) Even
- C) Periodic
- D) Inverse

**12. What is the value of  $\cos(0)$ ?**

- A) 0
- B) 1
- C)  $1/2$
- D) -1