

Pre-Calculus Fundamentals

Pre-Calculus · Answer Key · 12 Questions

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°
- B) 90°**
- C) 180°
- D) 360°

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