

Name \_\_\_\_\_

## Greek Mathematics and Geometry: A Journey of Advancements

### Multiple Choice Questions

1. Who compiled the book "Elements," which became the cornerstone of geometry?

- a) Pythagoras
- b) Euclid
- c) Archimedes
- d) Eratosthenes

2. What is the Pythagorean Theorem?

- a) The sum of all angles in a triangle is 180 degrees.
- b) In a right triangle, the square of the hypotenuse equals the sum of the squares of the other two sides.
- c) The ratio of the circumference of a circle to its diameter is a constant value known as  $\pi$  (pi).
- d) The area of a triangle is equal to half the base times the height.

3. Which Greek mathematician is known for developing trigonometry to understand celestial movements?

- a) Pythagoras
- b) Euclid
- c) Archimedes
- d) Hipparchus

4. Who made pioneering contributions to calculus and developed methods for calculating areas and volumes?

- a) Euclid
- b) Pythagoras
- c) Archimedes
- d) Eratosthenes

5. What is the "sieve of Eratosthenes" used for?

- a) Calculating areas of geometric shapes
- b) Finding prime numbers
- c) Solving quadratic equations
- d) Determining the volume of solids

