

# Grade 10 Final Geometry Exam

Subject: Mathematics

Time: 2 Hours | Marks: 50

---

## Section A: Multiple Choice Questions (1 Mark Each)

1. What is the value of  $x$  in the equation  $2x + 5 = 15$ ?  
a) 5    b) 10    c) 2    d) -5
2. Which of the following is the Pythagorean theorem?  
a)  $a + b = c$     b)  $a^2 + b^2 = c^2$     c)  $a/b = c$     d)  $a - b = c$

## Section B: Short Answer Questions (3 Marks Each)

3. Calculate the area of a circle with a radius of 7cm. (Use  $\pi = 22/7$ )

---

---

---

4. Factorize the quadratic equation:  $x^2 + 5x + 6 = 0$

---

---

---

---

## Section C: Long Form Proofs (5 Marks Each)

5. Prove that the sum of the interior angles of a triangle is always 180 degrees. You must show all your steps clearly.

---

---

---

---

---

---

---

---

---

---