



Indian Institute of Space Science and Technology
Department of Mathematics
Maths Club — Weekly Challenge #3

Date: October 27, 2025

Challenge Question

Difficulty: ★★☆☆☆

Prove that the equation

$$x^2 - 5y^2 = 3$$

has no integer solutions for x and y .

Instructions:

- Submit your detailed solution (typed or handwritten) by **7 Nov, 2025**.
- Use the link below for submission:

Submit Here: Maths Club – Weekly Challenge Submission

- Selected solutions will be featured in the **Maths Club GitHub repository**.

Maths Club • Department of Mathematics • IIST

For queries: mathsclub@iist.ac.in