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Week 3 > Reciprocity Laws and Mystery of Triangles > Problem (6-8)

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PROBLEM 6 (1/1 point)

Who proposed a very general reciprocity law on prime numbers in 1970's, which is expected to generalize the Quadratic Reciprocity Law and Class Field Theory?

○ Pythagoras of Samos

○ David Hilbert

○ Teiji Takagi

⦿ Robert Langlands ✔

○ Andrew Wiles

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PROBLEM 7 (1/1 point)

There are many problems on prime numbers which are unsolved for many years. According to an Arabic manuscript, the Congruent Number Problem is known to be an open problem at least for more than

○ 10 years.

○ 100 years.

○ 300 years.

⦿ 1,000 years. ✔

○ 5,000 years.

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PROBLEM 8 (1/1 point)

The Congruent Number Problem would be solved if one of the millennium problems of the Clay Mathematics Institute were solved. What is it?

- ○ Hodge Conjecture

- ○ The Poincaré Conjecture

- ◉ The Birch and Swinnerton-Dyer Conjecture ✔

- ○ The Riemann Hypothesis

- ○ P vs NP Problem

You have used 1 of 2 submissions

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