Problem (3-4)

Bookmark this page

Problem 3

1.0/1.0 point (graded)

The modularity is a reciprocity law for elliptic curves. It was conjectured by Taniyama and Shimura in 1950's. After the breakthrough given by Wiles and Taylor at the end of the 20th century, the modularity is proved by Breuil, Conrad, Diamond, and Taylor.

When did they prove it?

- 1995
- 1999
- 2001 ✔
- 2017

Submit You have used 1 of 2 attempts

Answers are displayed within the problem

Problem 4

1.0/1.0 point (graded)

The modularity of elliptic curves is vastly generalized today. According to Langlands's conjecture in 1970's, the symmetric power L-functions of elliptic curves should be described by automorphic forms. Even a partial solution of this conjecture implies striking number theoretic results.

What is the name of the conjecture solved in 2011 by using the solved case of Langlands's conjecture for symmetric power L-functions?

- (●) The Sato-Tate Conjecture ✔
- ( ) The Langlands-Wiles Conjecture
- ( ) Fermat's Last Conjecture
- ( ) The Elliptic Conjecture

Submit You have used 1 of 2 attempts

ℹ Answers are displayed within the problem

English ▼