

Problem 3

Many recent results on the **BSD Conjecture** are obtained by applying the methods of a theory generalizing Kummer's work in the 19th century on the special values of the **Riemann zeta function** and **Fermat's Last Theorem**. What is it?

- (a) Euler Theory
- (b) Iwasawa Theory
- (c) Kummer Theory
- (d) Takagi Theory

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Answer (b) Iwasawa Theory

- Kummer's theory of cyclotomic fields was generalized by Iwasawa.
- Iwasawa Theory becomes one of the central topics in modern number theory.



Ernst Eduard
Kummer
(1810-1893)



Kenkichi
Iwasawa
(1917-1998)