2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79 83 89 97 101 103 107 109 113 127 131 137 139 149 151 157 163 167 173 179 181 191 193 197 199

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

Problem 3

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. (1810-1893) (1917-1998)



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