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Solution of the class number two problem for cyclotomic fields. (English) Zbl 0288.12005
Invent. Math. 28, 243-244 (1975).

It is shown that the only cyclotomic fields of the form $\mathbb{Q}(e^{2\pi i/m})$ which have class number two are $\mathbb{Q}(e^{2\pi i/39})$ and $\mathbb{Q}(e^{2\pi i/56})$. Methods are the same as used in solving the class number one problem [the author and *H. L. Montgomery*, *J. Reine Angew. Math.* 286/287, 248–256 (1976; [Zbl 0335.12013](#))].

Reviewer: [John Myron Masley](#)

For a scan of this review see the [web version](#).

MSC:

- [11R29](#) Class numbers, class groups, discriminants
- [11R18](#) Cyclotomic extensions
- [11R42](#) Zeta functions and L -functions of number fields

Cited in **1** Review
Cited in **2** Documents

Full Text: [DOI](#) [EuDML](#)

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