

Letter to the Editor:

ON THE EQUATION $x^3+117y^3=5$. In a recent paper [1], Finkelstein and London proved the integer unsolubility of the equation

$$x^3+117y^3 = 5$$

using algebraic numbers.

Consider the congruence mod 9 instead of the equation. On account of $117 \equiv 0 \pmod{9}$ it reduces to $x^3 \equiv 5 \pmod{9}$, but $+1$, -1 and 0 are the only cubic residues mod 9. Thus the equation has no integer solutions.

BIBLIOGRAPHY

1. R. Finkelstein and H. London, *On D. J. Lewis equation $x^3+117y^3=5$* , Canad. Math. Bull. 14 (1971), p. 111.

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