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# On an incomplete argument of Erdos on the irrationality of Lambert series

# Joseph Vandehey

(Submitted on 2 Jun 2012)

We show that the Lambert series  $f(x)=\sum d(n) x^n$  is irrational at x=1/bfor negative integers \$b < -1\$ using an elementary proof that finishes an incomplete proof of Erdos.

Subjects: **Number Theory (math.NT)** 

MSC classes: 11J72

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