Cornell University

## Mathematics > Number Theory

## On the Diophantine equation cy^l=( $\left.x^{\wedge} p-1\right) /(x-1)$

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(Submitted on 3 Jun 2012)
Let $\mathrm{p}, \mathrm{c}$ be distinct odd primes, and I Ige 2 an integer. We find sufficient conditions for the Diophantine equation $c y^{\wedge} l=\left(x^{\wedge} p-1\right) /(x-1)$ not to have integer solutions

Comments: 7 pages
Subjects: Number Theory (math.NT)
Cite as: arXiv:1206.0424v1 [math.NT]

## Submission history

From: Mohammad Sadek [view email]
[v1] Sun, 3 Jun 2012 07:38:44 GMT (6kb)
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