Title: On the Diophantine equation $L_{n}=\binom{x}{5}$

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In this paper we determine all integral solutions $(n, x)$ of the Diophantine equation $L_{n}=\binom{x}{5}$, where $L_{n}$ is the $n$-th Lucas number which is defined as follows, $L_{0}=2$, $L_{1}=1$ and $L_{n}=L_{n-1}+L_{n-2}$ for $n>1$. We follow ideas described in [?], that is we combine Baker's method and the so-called Mordell-Weil sieve to show that the only positive solution is $(n, x)=(1,5)$.

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