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On the Diophantine equation $x^2 + 7^{2k} = y^n$,
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Abstract

In this note, we find all the solutions of the Diophantine equation
 $x^2 + 7^{2k} = y^n$, $x \geq 1$, $y \geq 1$, $k \in \mathbb{N}$, $n \geq 3$.