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Title: On the Diophantine equation $(x-1)^k + x^k + (x+1)^k = y^n$

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In this paper, we study the Diophantine equation $(x-1)^k + x^k + (x+1)^k = y^n$, $n > 1$, and completely solve it for $k = 2, 3, 4$.

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