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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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