PASCAL'S TRIANGLE CONJECTURE: A SOLUTION

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Abstract

The present paper establishes the Pascal's Triange Conjecture as a theorem. The conjecture is: "The sum of the numbers in the n-th row of the Pascal's Triangle Pattern is equal to 2n−1 8 n 2 N." On analysing the pattern of numbers in Pascal's Triangle it is found that each row in the triangle begins and ends with integer 1. Also, the sum of any two successive integers in a row is equal to the integer in the next row and is centered between the two integers. Such a conjecture has been established as a theorem by using the principle of Mathematical lnduction.

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