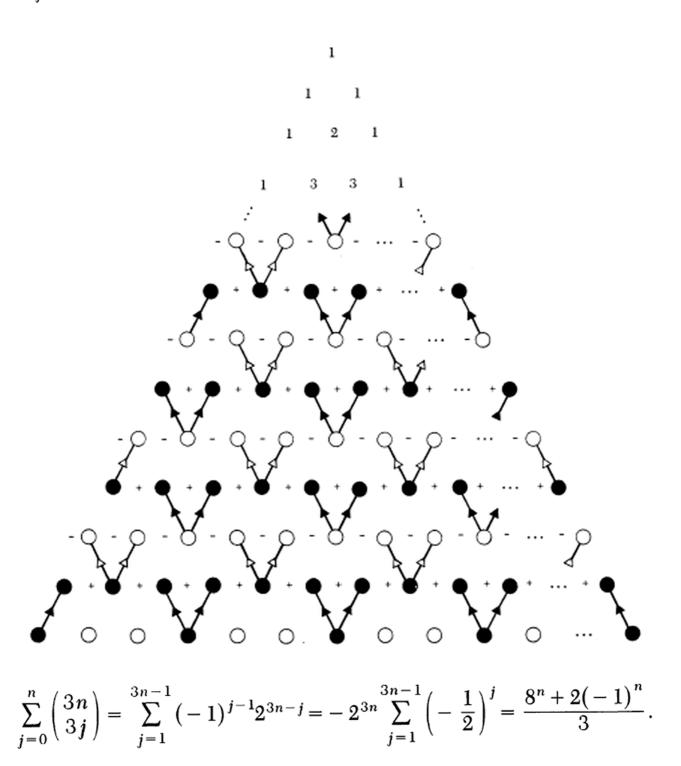
Proof without Words:

 $3\sum_{j=0}^{n} {3n \choose 3j} = 8^n + 2(-1)^n$, by Inclusion-Exclusion in Pascal's Triangle



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