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You may know, for example, that the entries in Pascal's Triangle are the coefficients of the polynomial produced by raising a binomial to an integer power. For example,  $(x + y)^3 = 1 \cdot x^3 + 3 \cdot x^2y + 3 \cdot xy^2 + 1 \cdot y^3$ , and the coefficients 1, 3, 3, 1 form row three of Pascal's Triangle.

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introduce some of the basic material in Additive Combinatorics, and in the next two lectures we prove two of the key background results, the

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