

ZMATH 2016e.00758

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Summation formulas involving polynomials.

Math. Teach. (Reston) 109, No. 5, 393-397 (2015).

Summary: Direct proofs for the sum of squares, the sum of cubes, and the sum of fourth powers use visualization to teach the identities.

Classification: H20 I30 E50 G90

Keywords: sums of powers; series; integers; identities; pictorial approach; visualization; geometric proofs; algebraic proofs; generalization; algebraic reasoning; geometric reasoning; multiple representations