Claremont Colleges
Scholarship @ Claremont

All HMC Faculty Publications and Research

HMC Faculty Scholarship

11-1-2005

Proof Without Words: Alternating Sums of Odd Numbers
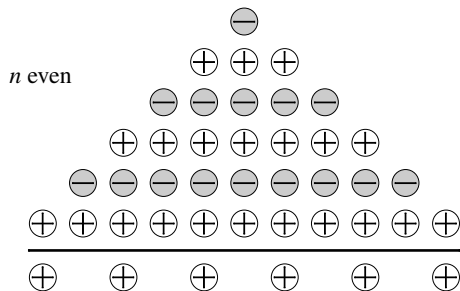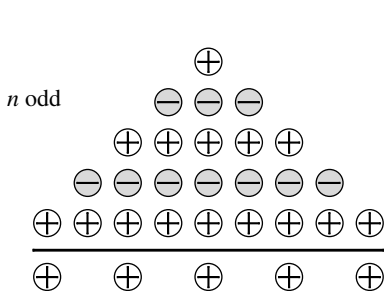
Arthur T. Benjamin
Harvey Mudd College

Recommended Citation

Proof Without Words:
Alternating Sums of Odd Numbers

$$\sum_{k=1}^{n} (2k-1)(-1)^{n-k} = n$$

—ARTHUR T. BENJAMIN
HARVEY MUDD COLLEGE
CLAREMONT, CA 91711