Wojciech Guzicki and Piotr Zakrzewski
Bijective Proofs of Formulas with $(-1)^{n}$, Fibonacci Quart. 60 (2022), no. 3, 262-266.


#### Abstract

We present simple bijective proofs of formulas involving the expression $(-1)^{n}$ connected to three different combinatorial problems. Our arguments somewhat resemble the combinatorial proofs of BenjaminOrnstein and Elizalde of the familiar derangement recurrence.


