1125-N5-1379 Russell W Howell (howell@westmont.edu), Dept. of Mathematics and Computer Science,
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Westmont College, Santa Barbara, CA 93108. The Count of Monte Disco. Preliminary report.
In their Pólya awarded paper of 2014, Brilleslyper and Schaubroeck characterized completely the unimodular roots (i.e., zeros that lie on the boundary of the unit disk) of trinomials having the form $p(z)=z^{n}+z^{k}-1$, where $1 \leq k \leq n-1$. They then posed a challenge problem well-suited for an undergraduate research project: derive a formula that would count the number of interior roots (i.e., zeros that lie inside the unit disk) of these trinomials. We present an prove such a formula. That the formula counts zeros inside the unit disk explains two of the three principle words of our title. To find out how Monte relates you must come to the talk! (Received September 16, 2016)

