1125-N5-1379 Russell W Howell (howell@westmont.edu), Dept. of Mathematics and Computer Science, Westmont College, Santa Barbara, CA 93108, and David N Kyle* (dkyle@westmont.edu), 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 $1 \le k \le n - 1$. 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)