Martin Eugenio Avendano* (avendano@math.tamu.edu), 306 Redmond Dr. Apt. 302, College Station, TX 77840-6602. Descartes' Rule is Exact! Preliminary report.
We show that for any univariate polynomial $f$ with real coefficients, there exists a polynomial $g$ with non-negative coefficients such that the number of positive real roots of $f$ is exactly the number of changes of signs in the vector of coefficients of fg . If all the positive roots of f are simple, then g can also be chosen as a power of the binomial ( $\mathrm{x}+1$ ). (Received August 25, 2009)

