## A candidate LLT-like test for proving the primality of Mersenne numbers, based on LLT-Cycles.

Tony Reix (Tony.Reix@laposte.net) 2006, 29th of April

This paper provides a conjecture:
Conjecture 1 (Reix) $\quad M_{q}$ is prime $\Longleftrightarrow S_{q-1} \equiv S_{0}\left(\bmod M_{q}\right)$
Where: $S_{0}=3^{2}+1 / 3^{2}, S_{i+1}=S_{i}^{2}-2$.
This has been checked for all $q$ prime up to M26.

