1. Let $n=2465$
(a) Apply Pollard's $\rho$ to find the smallest factor of $n$. Perform this calculation by hand.
(b) Use today's Mathematica notebook to complete the factorization of $n$ by using Pollard's $\rho$.
2. Use today's Mathematica notebook to find at least three prime factors $p_{1}, p_{2}, p_{3}$ of $n=2^{1341}-19$

For each prime factor $p_{i}$, verify that you obtained a collision in the $\bmod p_{i}$ sequences $\left\{x_{i}^{\prime}\right\},\left\{y_{i}^{\prime}\right\}$

