- 1. Let n = 2465
 - (a) Apply Pollard's ρ 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 ρ .
- 2. Let $n = 2^{1341} 19$
 - (a) Verify that *n* is composite using the Miller-Rabin test
 - (b) Use today's Mathematica notebook to find at least three prime factors p_1, p_2, p_3 of n
 - (c) For each prime factor p_i , verify that you obtained a collision in the mod p_i sequences $\{x_i'\}$, $\{y_i'\}$