## quiz 09.1

(1) Verify (with reasonable efficiency) that 6 is a primitive root modulo 59.
(2) Find a solution to the system

$$
\left\{\begin{array}{l}
x=4 \bmod 53 \\
x=2 \bmod 79
\end{array}\right.
$$

(3) Use Pollard's rho method to find a proper factor of 1313.
(4) Use Pollard's $p-1$ method to find a proper factor $p$ of 779 , using list of primes 2,3 .

