Introduction to mathematical cryptography
Homework problems
Week 1

1. The cipher

   `DYLOY BXYDD YLODR KDSCD ROAEO CDSYX`

   is encrypted by the Caesar cipher. Decrypt it.

2. Using the euclidean algorithm, compute $\gcd(140251, 173611)$. Also, write the greatest common divisor as the integer combination of 140251 and 173611.

Note: Please, provide complete arguments everywhere, and explain how you arrived at your answer/solution. Giving the result without explanation leads to score deduction.