## MATH 3375 (Theory of Cryptology) - Fall 2013

Homework Assignment 7

Due: Nov. 7, 2013

- The following message was encoded via Hill's encryption scheme: CMYPZ GTAYO EQBYQ JLAOW INELN NECNN UESZT YTFRU OWYXH KYADM NJRUK CUFZP YPNNM XWSQQ OJMGO JZQZQ FLVAY XGIPR OPUFJ WTSVA ATQU In addition, you know that the name GEORGE PAPANDREOU appears in this message.
  From Section 4.1 Exercise 1, 3, 5, 7
  Suppose that you know the following facts about the number 14,803: (i) 14,803 is the product of two primes.
  - (ii)  $\phi(14, 803) = 14,560.$

Can you now factor the number?