Name:                                        Date: Monday, September 26, 2016

## MATH 181 F1 Worksheet: Cryptography Continued

**Question 1:**
**Use the decimation cipher with key 7 to encrypt:**

```
ILLINI
```

**Question 2:**
**Pick a key word with three letters and use the Vigenère square to encrypt:**

```
one if by land two if by sea
```

**Question 3:**
Alice and Bob live in different cities and want to send private messages to each other. They suspect the mailman is reading their mail. Alice and Bob both have lockboxes that when closed can be locked with a padlock. Alice has a padlock (to which she has a unique key) and Bob has a padlock (to which he has a unique key). What is a possible strategy for them to securely send a message to each other via the mail (they can make copies of the keys)?