**Homework 10**

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**Key for Exercises 1 & 3**



1. **Ciphertext:** NYJY!JNYJXYAHJARO!OJS JXYJA!FI*(4 points)*

**Plaintext: DO OR DO NOT. THERE IS NO TRY!**

The following information was extracted from The BLACK Chamber’s Pigpen Cipher page. The content is available at https://simonsingh.net/The\_Black\_Chamber/pigpen.html.

*“The Pigpen Cipher was used by Freemasons in the 18th Century to keep their records private. The cipher does not substitute one letter for another; rather it substitutes each letter for a symbol. The alphabet is written in the grids shown, and then each letter is enciphered by replacing it with a symbol that corresponds to the portion of the pigpen grid that contains the letter.”*

The key is

A close up of a clock

Description automatically generated

1. You have received the following pigpen ciphertext:



Decipher the ciphertext. *(3 points)*

**Plaintext: SJKWJXYJTONSH**

1. The plaintext extracted in exercise 2 is ciphertext encrypted using a substitution cipher, whose key is shown at the top of the page. What is the original message? *(3 points)*

**Ciphertext: SJKWJXYJTONSH**

**Original message: I AM NO JEDI.**