

ECE 3020 Homework 7
Due Date: Friday, October 20, 3:00 PM

- 1) Consider the following symbols and associated frequencies from a mythical hieroglyphic language:

○	9%	□	9%	⌘	8%	Ψ	2%
⌘	9%	♋	8%	♌	6%	Π	2%
◆	9%	♎	8%	♥	5%	⌘	2%
●	9%	♍	8%	♠	5%	⌘	1%

Construct a Huffman code for these symbols. What is the expected number of bits per symbol in your code? Compare the efficiency of your code to a fixed-length code with 4 bits per symbol.

- 2) On-line Text, Problem 5.6.5
- 3) On-line Text, Problem 5.7.7