Practice problems for Final. These will NOT be graded.

- Problem 1. Do problems 7.1, 7.2, 7.3 on page 628 of PH.
- **Problem 2.** Assume you have a word addressable machine with 2^{20} words of memory. Assume it has a four-way set associative cache that stores a total of eight blocks, where the block size is sixteen words.
 - (a) Draw a picture of the cache.
 - (b) What bits are associated to the cache index, to the block, and to the tag.
 - (c) Where in the cache can word with address

101100110101011111101

be stored?

Problem 3. Do problem 7.8 on page 628 of PH.

Problem 4. Do problem 7.32 on page 632 of PH.