

## Math 2001: Homework P8

Due: October 28, 2009

1. From the book do problems:
  - (a) 4.3: 7(b-c), 8, 10
  - (b) 4.4: 4, 9, 10
2. For each of the following sets, count the number of 4 letter words that one can make using letters from the set.
  - (a) The set  $\{A, B, C, D, E, F, G, H, I\}$  ( $ABCD$  is valid, but  $AABC$  is not).
  - (b) The multi-set  $\{T, E, L, E, P, H, O, N, E\}$  ( $EEL E$  is valid, but  $EEEE$  is not).