

CS381 Homework Assignment number 6  
Due Friday, Oct. 7, 2005

Please write your name and net id on the upper right corner of each page.

1. Let  $L_0 = \{w \# w0 \# w \in (0+1)^*\}$ ,  $L_1 = \{w \# w1 \# w \in (0+1)^*\}$ , and  $L = L_0 \cup L_1$ . Describe the set  $L^* \cap 0 \# L^* (0+1)^* \#$ . How would you modify the set so that it also has strings with an odd number of blocks.

2. 4.1.1 b, d, and f.

3. 4.1.4 b and d.

4. 4.3.2

5. 4.4.2