

COS 210 Worksheet 2

• This worksheet consists of 4 questions for a total of 12 marks.

 $A = \{w : w \text{ starts with } 1 \text{ and ends with } 0\}.$

 $A = \{w : w \text{ starts with } 0 \text{ and has an odd length or starts with } 1 \text{ and has an even length}\}.$

 $A = \{w : w \text{ contains an even number of 0's or contains exactly two 1's}\}.$

 $A = \{w : w \text{ is a string of length } n > 1 \text{ where the first and the last symbol are different from each other}\}.$