Name: Id#

COE 202, Term 131 Digital Logic Design

Quiz# 4

Date: Tuesday, Nov. 25

- **Q1**. Design a circuit that accepts two 2-bit unsigned numbers $A = A_1A_0$ and $B = B_1B_0$. The circuit produces A B when A > B, and produces A + B otherwise. Find the following:
 - (a) The number of outputs produced by the circuit.
 - (b) The truth table of the circuit.
 - (c) The minimal <u>product-of-sums</u> expression for each output.

Q2. Convert the AND/OR/NOT logic diagram shown below to a NAND logic diagram:

