

# CSE 260M - Quiz 5

*October 4, 2006*

*Name:* \_\_\_\_\_

*Student ID Number:* \_\_\_\_\_

1. A majority function is defined as a combinational circuit where the output is equal to 1 if the input variables have more 1s than 0s. The output is 0 otherwise. Design a 3-input majority function (circuit). Implement your design in two ways: as a minimal sum-of-products circuit and as a minimal product-of-sums circuit.