

HW #3

CSc 137, Fall 2020, Harvey

Adder/Mux (12 pts)

1. Design a Single cell -1 bit Carry propagate (Ripple Carry Adder) full adder. (6 pts)
 - a. Generate the truth table
 - b. Using K-map, determine the logical expression for Carry out (C-out) and Sum (S)
 - c. Based on the logical expression, create the schematic diagram for full adder

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2. Design a 1 bit, 2 to 1 multiplexer (Mux) (6 pts)
 - a. Generate the truth table
 - b. Using K-map, determine the logical expression for output
 - c. Based on the logical expression, create the schematic diagram for Mux