ECE 130 HW\#10, Due Tuesday, April 12

1. Implement the canonical expression $\mathrm{f}(\mathrm{x}, \mathrm{y}, \mathrm{z})=\Sigma(1,3,5,6,7)$ using only ONE 74LS151 multiplexer and as many 2 -input NOR gates as you like. Build your circuit using simulation software and verify that it works correctly.
2. Implement a 32:1 multiplexer with active-low enable using only ONE 74LS151 multiplexer and any glue logic (AND, OR, NOT, etc.) that you desire. Build your circuit using simulation software. NOTE: you should not try to test this circuit with all $2^{32}$ inputs!!!
