ECE 130 HW\#9 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 74LS138 decoder and as many 2 -input NAND gates as you like. Build your circuit using simulation software and verify that it gives the correct output.
2. Implement a $5: 32$ binary decoder with active-low enable and active-low outputs using 74LS138 decoders and any glue logic (AND, OR, NOT, etc.) that you desire. Build your circuit using simulation software and verify that it gives the correct output.
