1. (tabular simplification) Use the tabular method to find the PI’s and minimum cost solution for the function:

\[ F(A, B, C, D) = A'C'D' + A'B'C' + BC'D + ABD + ACD + AB'C'D' + AB'C + A'CD' \]

2. (tabular simplification) Use the tabular method to find the PI’s and minimum cost solution for \( F' \), where \( F \) is given by:

\[ F(W, X, Y, Z) = \sum m(0,1,2,3,4,8,10,11,12,13,15) \]

3. (enable logic) Problem 4-4, text book, p. 192
4. (decoders) Problem 4-5, text book, p. 192
5. (decoders) Problem 4-6, text book, p. 192
6. (decoders) Problem 4-8, text book, p. 193
7. (encoders) Problem 4-10, text book, p. 193
8. (multiplexers) Problem 4-12, text book, p. 193
9. (multiplexers) Problem 4-14, text book, p. 193
10. (multiplexers) Problem 4-18, text book, p. 193
11. (decoder logic) Problem 4-21, text book, p. 194
12. (decoder logic) Problem 4-22, text book, p. 194
13. (mux logic) Problem 4-23, text book, p. 194
14. (mux logic) Problem 4-24, text book, p. 194
15. (verilog) Problem 4-49, text book, p. 199
16. (verilog) Problem 4-52, text book, p. 200