1.a)

    i.

$$Y = (AB + CD)$$
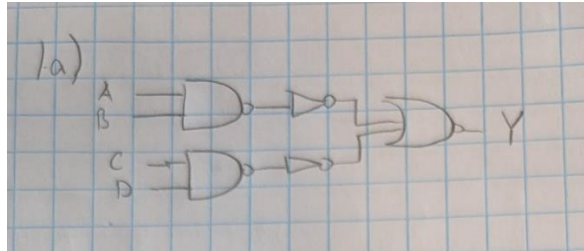
    ii.

A = 1 / A' = 2
B = 1 / B' = 2
C = 1 / C' = 2
D = 1 / D' = 2

    iii.

1.b)

    i.

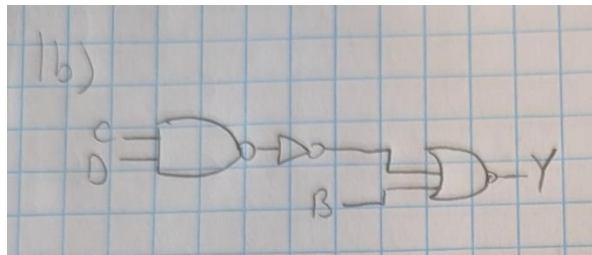$$Y = (B + CD)$$

    ii.

B = 2 / B' = 2
C = 1 / C' = 2
D = 1 / D' = 2

    iii.

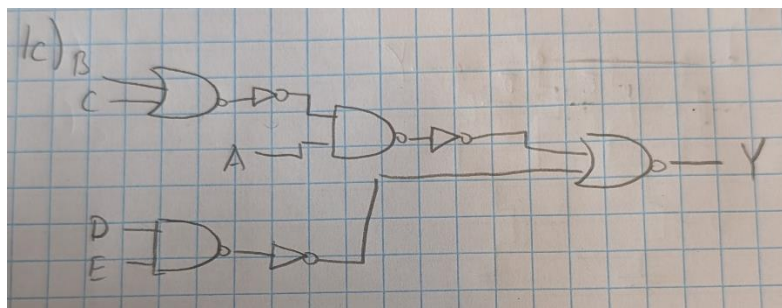1.c)

    i.

$$Y = (DE + AB + AC)$$

    ii.

A = 1 / A' = 2
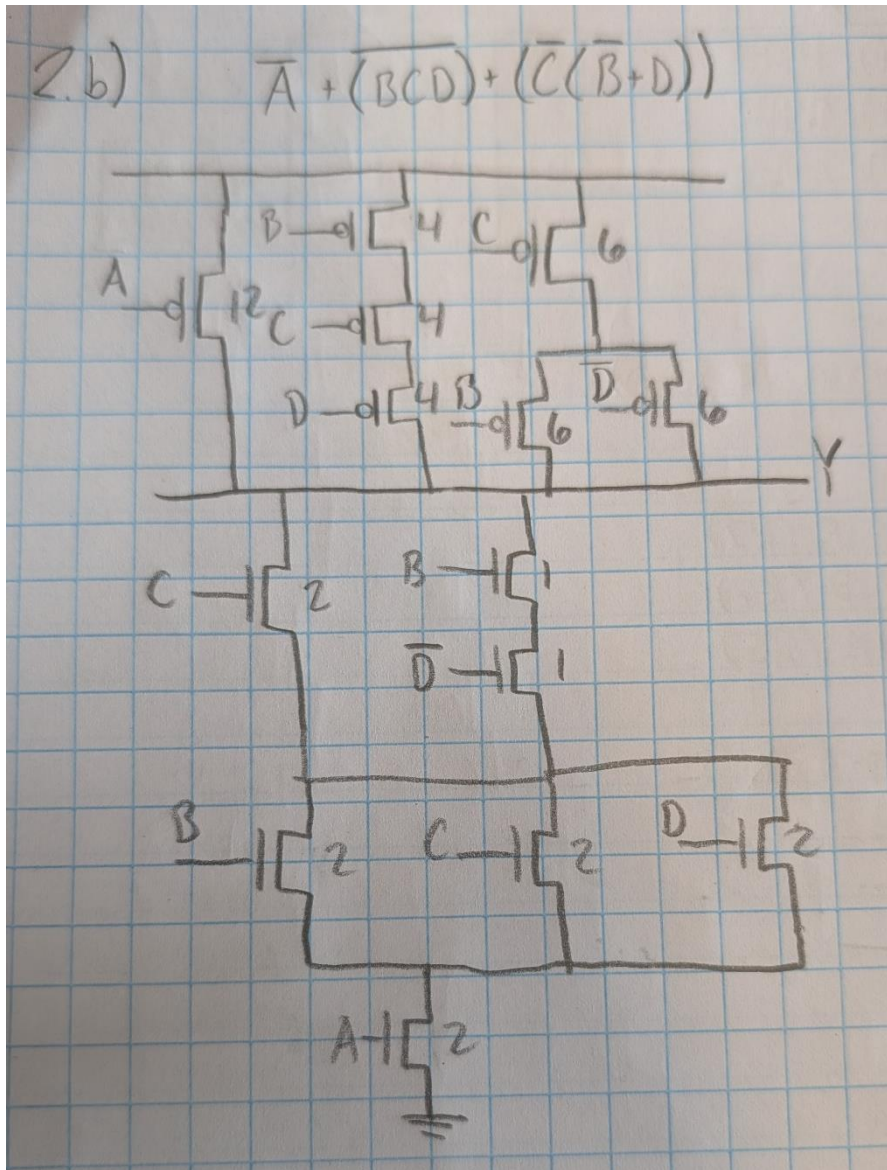B = 1 / B' = 1
C = 1 / C' = 1
D = 1 / D' = 2
E = 1 / E' = 2

    iii.

2.a)

$$Y = A(B+C+D)(C+BD')$$

2.b+c)

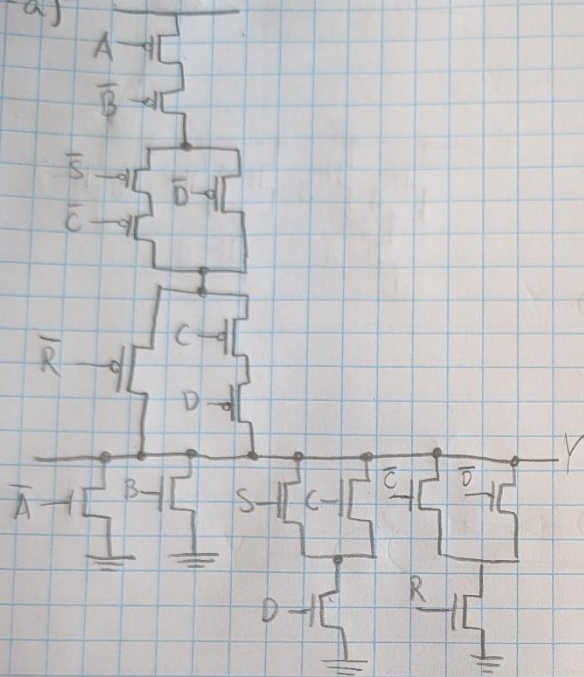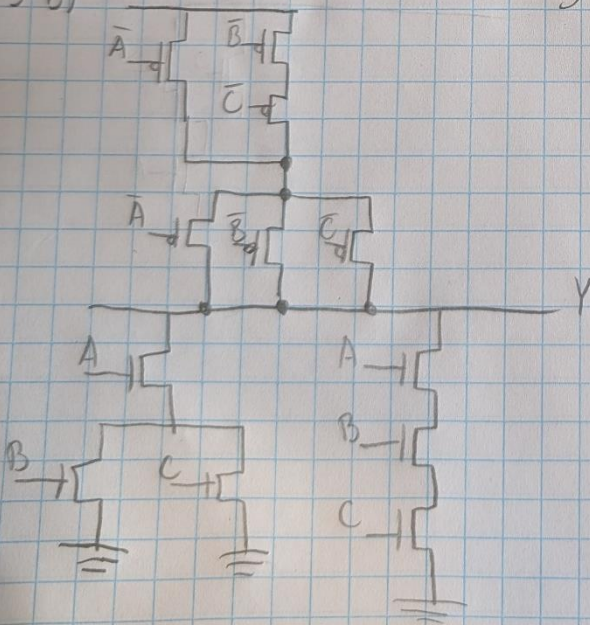2.b) $\overline{A + (BCD) + (\overline{C}(\overline{B}+D))}$

The sizes for part C are also in there

3.

3-a)

3-b)

3-c)