Homework 3 Solutions

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From Lam, O'Malley Textbook

3.9a 74.08

3.9b

Input 1	Input 2	Output
L	L	L
L	Н	L
Н	L	L
Н	Н	Н

3.9c, 3.9d

 $\overline{I1(H), I2(H)}, O(H)$ O = I1 * I2 (for part e)

I1(H), I2(H), O(L) O = /(I1 * I2)

I1(H), I2(L), O(H) O = I1 * /I2

I1(H), I2(L), O(L) O = /(I1 * /I2)

I1(L), I2(H), O(H) O = /I1 * I2

I1(L), I2(H), O(L) O = /(/I1 * I2)

I1(L), I2(L), O(H) O = /I1 * /I2

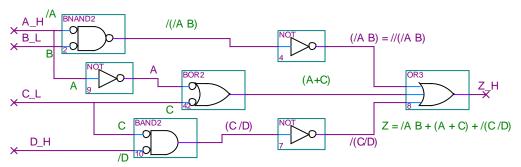
I1(L), I2(L), O(L) O = /(/I1 * /I2) = I1 + I2 (for part f)

3.9e

AND

3.9f OR

3.13

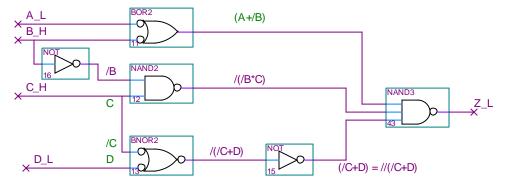


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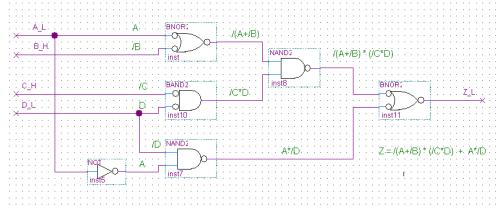
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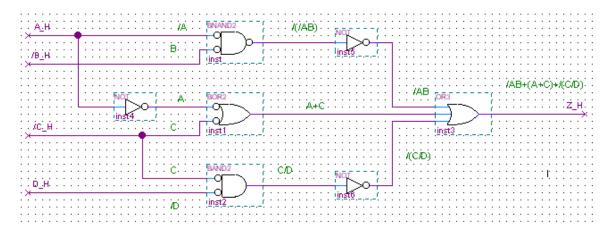
3.14



3.15



3.16



$$\overline{a}$$
 \overline{Z} = AC + B/CD + /C

b)
$$Z = /(A + B + /D) (A + C)$$

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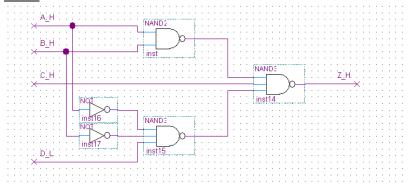
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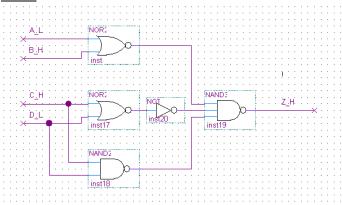
From Lam, O'Malley Textbook

$$\frac{3.23}{Z = (A + /B + C) (/A + B) (/A + /C)}$$

3.26a



3.26c



3.26e

