## Homework 1

(1) Using AND, ox, and NOT gates, implement the following f = (x + y)z

 $f_2 = (x+y)(z+w)$ 

+3 = Xy + ZW fy= xy + Zw

Su surion 2.4 of fext book for these questions:

what is cosic synthesis?

What is logic analysis?

Using truth fastes, show that

Figure Z-10(a) has similar functionality to

Frynk Z-10(d). ( see pay 28 of by textbook)

## Homework 1 - cont

Wednesday, August 25, 2010

11:39 PM Note for problem 30

For each intermediate node your should have a column in your thugh table.

4) Using truth table to show that (i) x(y+2) = xy + xz

 $(ii) \overline{X} = \overline{X} + \overline{y}$ 

 $(iii) \overline{X+y} = \overline{X}\overline{y}$ 

, and fz Find t