HW)

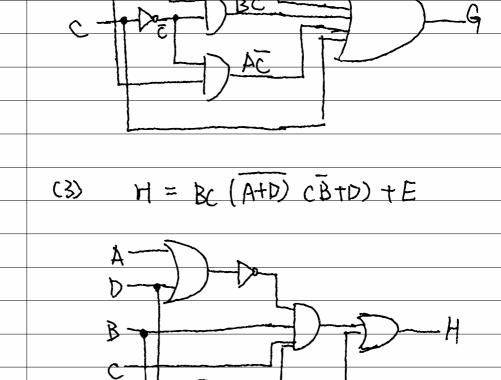
P1. Output
$$1 = \overline{ABC} + \overline{ABC} + \overline{ABC}$$

Output $2 = \overline{ABC} + \overline{ABC} + \overline{ABC} + \overline{ABC}$

Output $3 = \overline{AB} + \overline{AB} + \overline{AB}$

P2.

(1) $F = \overline{Y} * \overline{Z} + \overline{Z} * (\overline{X} + \overline{Y})$
 $X = \overline{X} = \overline{$



unclear
which equations
$$F = \overline{Y} \times Z + \overline{Z} \times (\overline{X} + \overline{Y})$$

to be simplied. $= (\overline{Y} + \overline{Z}) \times (\overline{Z} + (\overline{X} + \overline{Y})]$
 $= (\overline{Y} + \overline{Z}) \times (\overline{Z} + (\overline{X} + \overline{Y})]$
 $= (\overline{Y} + \overline{Z}) \times (\overline{Z} + (\overline{X} + \overline{Y}))$
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 $= (\overline{Y} + \overline{Z}) \times (\overline{Z} + (\overline{X} + \overline{Y}))$
 $= (\overline{Y} + \overline{Z}) \times (\overline{Z} + (\overline{X} + \overline{Y}))$

P3. (1) F= Y*8 + 2*(X+Y)

= XS+ X(X+1) + E(X+X) = 1(2+1) + x2+ x2

ニャナメミナアミ

= X+X8

F = F = (Y+XZ) = Y(X+Z)

(2)
$$G = AB + \overline{A} \times B \times \overline{C} + \overline{B} \times \overline{C} + \overline{AC} + C$$

$$G = AB + \overline{A}B\overline{C} + \overline{B}\overline{C} + A\overline{C} + C$$

$$= (\overline{AB}) * (\overline{ABC}) * (\overline{BC}) * (\overline{AC}) * \overline{C}$$

$$\times (\overline{X+Y}) = X'$$

$$= (\overline{A+B}) * (\overline{A+B+C}) * (\overline{B+C}) * (\overline{A+C}) * \overline{C}\overline{A}$$

$$= (\overline{A+B}) * (\overline{A+B}) (\overline{B+C}) + \overline{C}(\overline{B+C}) * \overline{C}\overline{A}$$

$$= (\overline{A+B}) * [A(\overline{B+C}) + \overline{B}(\overline{B+C}) + C] * \overline{C}\overline{A}$$

$$= (\overline{A+B}) * [A(\overline{B+C}) + \overline{B}(\overline{B+C}) + C] * \overline{C}\overline{A}$$

$$= (\overline{A+B}) * [A(\overline{B+C}) + \overline{B}(\overline{B+C}) + C] * \overline{C}\overline{A}$$

$$= (\overline{A} + B) * (AB + C) * \overline{CA}$$

$$= (\overline{A} + B) AB \cdot \overline{CA} + (\overline{A} + B) C \cdot \overline{CA} \stackrel{A}{c}$$

$$G = \overline{G} = \overline{D} = 1$$

= [

P4.

(1)
$$F = AC + \overline{ABC} + BC + \overline{C}$$
 $= AC + \overline{ABC} + \overline{C} + B$
 $= CCA + \overline{ABC} + \overline{C} + B$
 $= CCA + \overline{C} + \overline{C} + \overline{C} + \overline{C}$
 $= CCA + \overline{C} + \overline{C} + \overline{C} + \overline{C}$
 $= CA + \overline{C} + \overline{C} + \overline{C} + \overline{C}$
 $= CA + \overline{C$

X+XY= X+X

$$= \frac{1}{12} + \frac{1}{12$$

