Section 1.9: contd

Tuesday, October 07, 2014

example: simplify using the LOL  $(\bar{\rho} \vee 0) \wedge (\bar{q} \vee q) \wedge (1 \vee \Gamma)$   $\bar{\rho} \wedge (\bar{q} \vee q) \wedge 1$  identity  $\bar{\rho} \wedge 1 \wedge 1$  complement  $(\bar{\rho} \wedge 1) \wedge 1$  associate (can skip this styp)  $\bar{\rho} \wedge 1 \wedge 1$  identity

(p^p) v (p^p)

O v 1 camplement

any identity complement definition of "ar"

simplify: (brintesser)

pv(qnr) ~ (pv(qnr))

complement

Simplify:

$$(A + A)(\overline{B}B) + (B+B)(A+\overline{A})$$
 $A = (\overline{B}B) + B = (A+\overline{A})$  iden potent

 $A \cdot O = + B \cdot I$  complement

 $O = + B$  identity

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

Summary:

identity laws: deal with zeros or ones

idempotent: deal with a variable and

itself

complement: deal with a variable and

its regation

commutative } don't have to write these associative at