

$$a \wedge (a \wedge 1) = \underline{a}$$

$$(a \vee 0) \wedge (1 \vee 0) \wedge 1 = \underline{a}$$

$$\overline{(a \wedge b)} \wedge \overline{(a \wedge b)} = (a \wedge b) \vee (a \wedge b) = \underline{a \wedge b}$$

$$(a \wedge b) \vee (a \wedge c) \vee (a \wedge d) = \underline{a \wedge (b \vee c \vee d)}$$

$$\overline{(a \wedge 1)} \vee a = (\overline{a} \vee \overline{1}) \vee a = \underline{0 \vee a}$$

$$a \wedge b \wedge c \wedge \overline{b} = \underline{0}$$

$$\overline{(a \vee 0)} \wedge (1 \vee 0) = (\overline{a} \wedge \overline{0}) \wedge (1 \vee 0) = \underline{(\overline{a} \wedge \overline{0}) \wedge 1}$$

$$\overline{\overline{a} \wedge (\overline{b} \vee \overline{c})} = \underline{a \vee (b \vee c)}$$

$$(a \wedge b) \vee (\overline{a} \wedge b) = \underline{b \wedge (a \vee \overline{a})}$$