

$$A \text{ or } (A \text{ and } B) = A$$

A	B	A and B	A or (A and B)
T	T	T	T
T	F	F	T
F	T	F	F
F	F	F	F

$$A \text{ and } (A \text{ or } B) = A$$

A	B	A or B	A and (A or B)
T	T	T	T
T	F	T	T
F	T	T	F
F	F	F	F

①

②

① = ②

eg 2a1?

$$\text{So, } A \text{ or } (A \text{ and } B) = A$$

$$A \text{ and } (\text{not } A) = F$$

A	Not(A)	A and (NOT A)
T	F	F
F	T	F

$$A \text{ or } (\text{not } A) = T$$

A	Not A	A or (not A)
T	F	T
F	T	T

A	A And A
T	T
F	F

A	T	A and T	A and F
T	T	T	F
F	T	F	F

① ②

$$A \text{ and } T = A; \quad A \text{ and } F = F;$$

A	A or T	A or F
T	T	T
F	T	F

$$\text{So, } A \text{ or } T = T \text{ \& } A \text{ or } F = A$$

$$\text{Not}(\text{Not } A) = A$$

A	Not A	Not(Not A)
t	F	t
f	t	f

A	$\sim A$	A and $\sim A$	$A \vee \sim A$
T	F	F	T
F	T	F	T

(F) (T)

A	A and A	$A \vee A$
T	T	T
F	F	F

(A) (A)

$$\text{Not}(A \text{ and } B) = (\text{Not } A) \text{ or } (\text{Not } B)$$

A	B	A and B	Not(A and B)	A	B	Not A	Not B	(Not A) or (Not B)
T	T	T	F	T	T	F	F	F
T	F	F	T	T	F	F	T	T
F	T	F	T	F	T	T	F	T
F	F	F	T	F	F	T	T	T

↓ ↓
Don't need to write A & B

Use capital letters consistently again.

$$\text{Not}(A \text{ and } B) = (\text{not } A) \text{ or } (\text{not } B)$$

A	B	A and B	not (A and B)	not A	not B	(not A) or (not B)
T	T	T	f	F	F	F
T	F	F	t	F	t	t
F	T	F	t	t	F	t
F	F	F	t	t	t	t

~~T & F
 are
 looking
 the same
 way~~

Didn't complete
 all 13
 exercises.