

Share to :

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due : Thursday

Quiz

Boolean statement

True False

A
T
F

A	B
T	T
F	F
T	F
F	T

$$A = X > 2 \quad X < 10$$

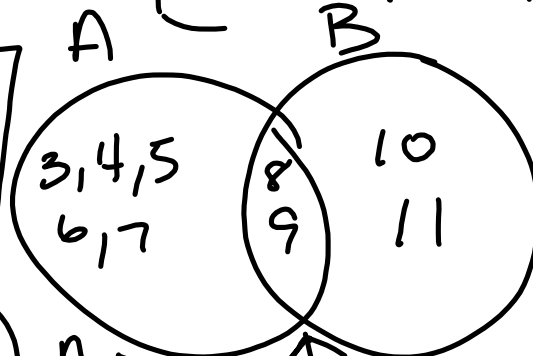
$$[3, 4, 5, 6, 7, 8, 9]$$

$$B = X > 7 \quad X < 12 \quad \underline{!A}$$

$$[8, 9, 10, 11]$$

*
A || B

F	F	F
T	T	T
T	F	T
F	T	T

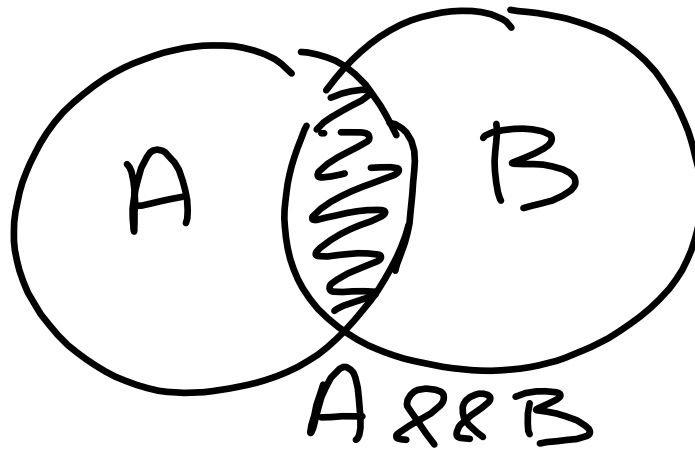


A [3, 4, 5, 6, 7]
B [6, 7]

A & B

A ∩ B *

①	F	F	→	F
⑧	T	T	→	T
⑤	T	F	→	F
⑩	F	T	→	F

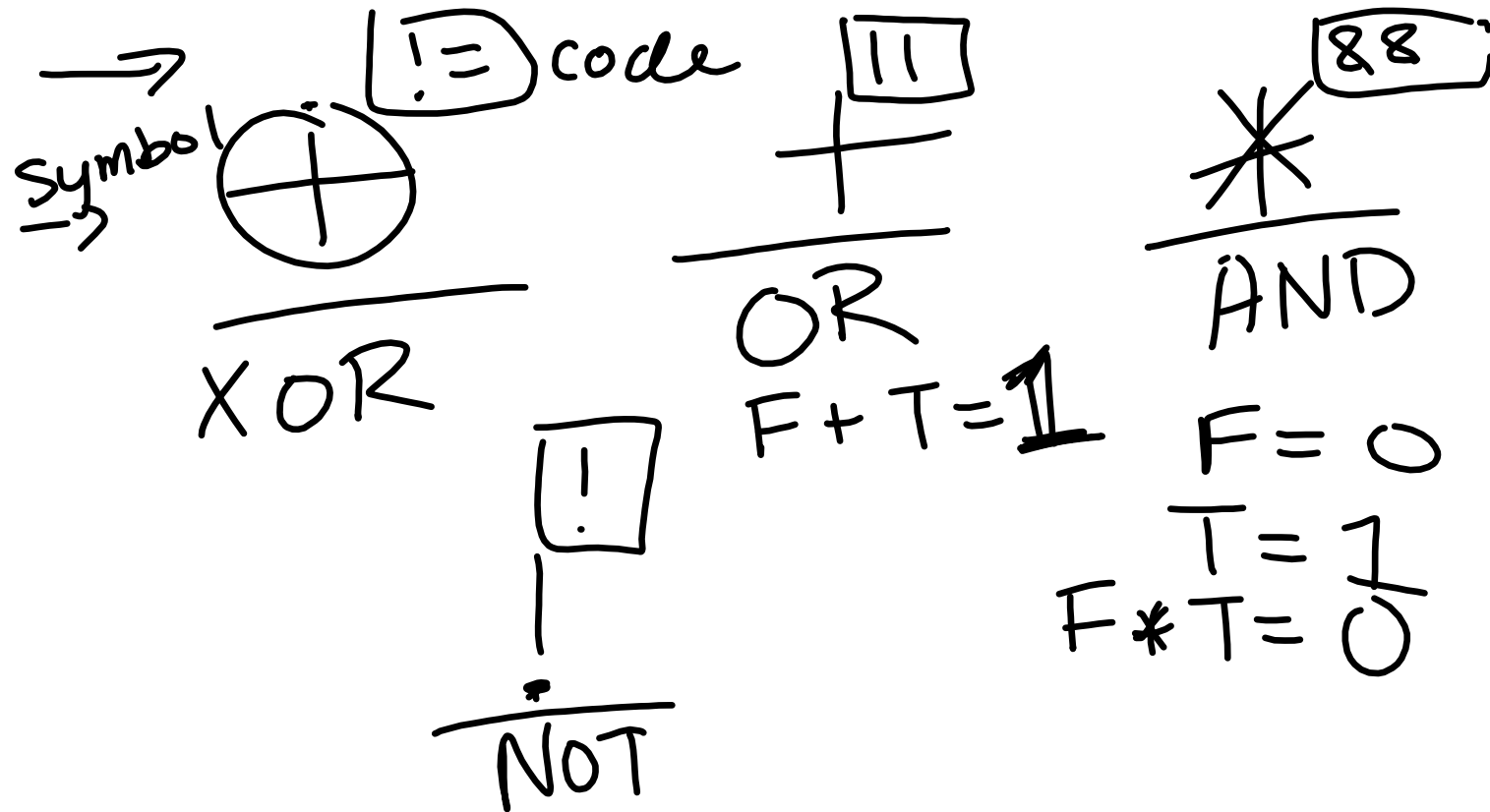


$$\neg(A \text{ xor } B) \rightarrow \neg((A \cup B) \cap \neg(A \cap B))$$

$$A \text{ xor } B = A \neq B$$

	A	B	A xor B
1.	F	F	F
2.	F	T	T
3.	T	F	T
4.	T	T	F

Does not
equal



T F
Compare
 $>$
 $<$
 $>=$
 $<=$
 $=$ equal to
 $!=$ Not equal to

logical oper
AND
OR
(xor) Exclusive OR
NOT

Defining Rules
GRADE in School

A	≥ 90	$90 \equiv D$
B	≥ 80	
C	≥ 70	
D	≥ 60	
F	< 60	

My Grade
= X

$$\begin{aligned}
 &!(A \text{ xor } B) \\
 &!(A \text{ || } B) \&\& !(A \&\& B) \\
 &!(A \text{ == } B) \\
 &!(A \text{ == } B) \\
 &A == B \\
 &!(A \text{ || } B) \&\& !(A \&\& B) \\
 &!(A \&\& B) \text{ || } !(A \text{ || } B) \\
 &!(A \&\& B) \text{ || } (A \&\& B)
 \end{aligned}$$