

Truth Table

Boolean Statement X	Boolean Statement Y	Not !	Not !	AND &&	OR 	XOR ^	X	Y	De'Morgan's Law	
		!X	!Y	X&&Y	X Y	X^Y	X^Y^Y	X^Y^X	!(X&&Y)	!X !Y
T	T	F	F	T	T	F	T	T	F	F
T	F	F	T	F	T	T	T	F	T	T
F	T	T	F	F	T	T	F	T	T	T
F	F	T	T	F	F	F	F	F	T	T

X=2, y=3 X=2, y=3 => x=10, y=11

SWAP	SWAP				
temp=x	x=x^y	= 10^11 = 01	1		X => 1/X => 1/1/X = X
x=y	y=x^y	= 01^11 = 10	2		
y=temp	x=x^y	= 01^10 = 11	3		

X=3, y=2 X=3, y=2

s =====>	
!(X Y) !X&&!Y	
F	F
F	F
F	F
T	T