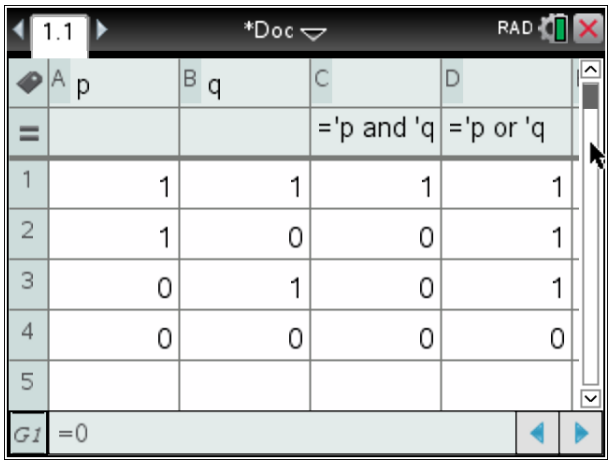
TRUTH TABLES ON TI NSPIRE CX

We use 1 for T and 0 for F

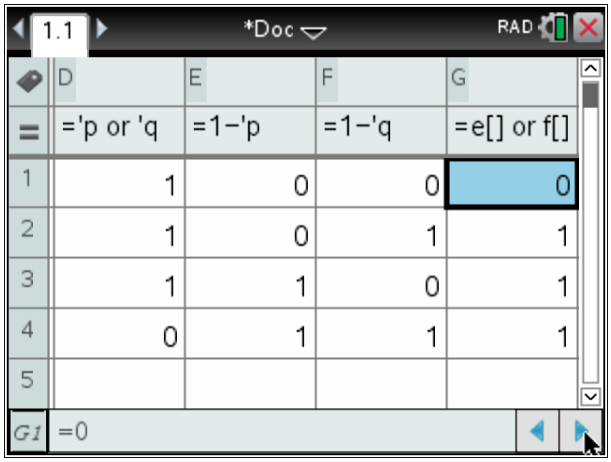
Use **and** for **conjunction** and **or** for inclusive **disjunction**



	A p	B q	C ='p and 'q	D ='p or 'q
1	1	1	1	1
2	1	0	0	1
3	0	1	0	1
4	0	0	0	0
5				

G1 =0

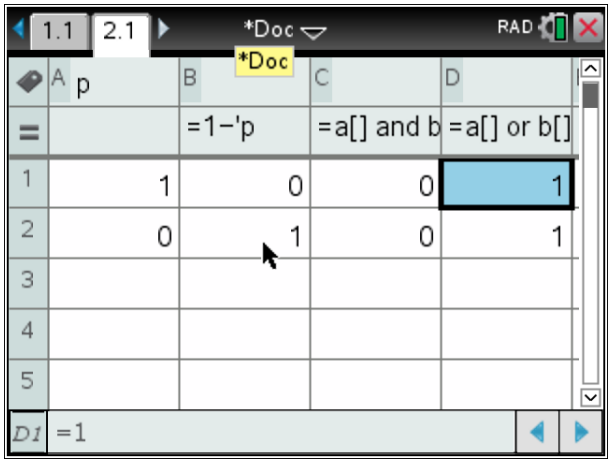
For negation we use 1-p and 1-q



	D ='p or 'q	E =1−'p	F =1−'q	G =e[] or f[]
1	1	0	0	0
2	1	0	1	1
3	1	1	0	1
4	0	1	1	1
5				

G1 =0

Notice the difference between variable reference and column reference:



	A p	B =1−'p	C =a[] and b	D =a[] or b[]
1	1	0	0	1
2	0	1	0	1
3				
4				
5				

D1 =1

To create the truth table $\neg(p \wedge q)$:

p	q	$p \wedge q$	$\neg(p \wedge q)$
T	T	T	F
T	F	F	T
F	T	F	T
F	F	F	T

To create the truth table $\neg p \vee \neg q$:

p	q	$\neg p$	$\neg q$	$\neg p \vee \neg q$
T	T	F	F	
T	F	F	T	
F	T	T	F	
F	F	T	T	