31.2. Propositions SAI	Fitang Zhong proved that there are infinitely many prime pairs Lifter by at most 170,000,000.
true or false, but not both.  ex) $1+1=2$ (0) $1+2=4$ (0) $2+3>2$ proposition(x)	ex) It is cold today.(X)
Earth is the only planet in the universe	ex) This statement is false. (0)
that contains life.  There are infinitely many primes.	
2,3,5,7,11,13, There are infinitely many twin primes, (3,5), (5,7), (11,13), (17,19),	
Twin prime conjecture. Hisgol the	<u> </u>

bet) p. q: propositions.	P 7P
The conjunction of p and g is $p \wedge g = p$ and g.	T F T
The <u>digunction</u> of p and g 7s	Note (operator precedence) When T, M, V are mixed we compute T first, and the M
The negation of p is	ex) $\neg p \vee g \wedge r$ means $(\neg p) \vee (g \wedge r)$
7p = not p.  Thath table	This is similar to -, +, .
P & PAB PV8 TT T	$ex) - 5 + 4 \cdot 3 = (-5) + (4 \cdot 3)$
TF F T	We will often use paventheses to avoid
FF  F F	confusion.