Chapter 1. Propersitional Logic
& 1-1 Deductive reasoning & logical connectors.
Rize will rain em
Size will snow there
=> These phrases are inambiguous, they are either truth or false.  Logical connectors:
Vor
1 and
not (negation)
ef. RAS: It will rain and snow thr
RVS: It will rain or snow thr
(PAS) V (RAZS) = It will either rain or snow emr (exclusive or)
English to logic: Thit will be swany tour
eg. Either it won't rain and it won't snow, or it would be sunny =>(72175) VT
It won't rain, and either it will snow or it would be sunny.
=> ¬RA(SUT)
Translate to logical expression
e-f- 3 <t ==""> (3<t) v(3="t)&lt;/td"></t)></t>
3 & TUS4 => [(3 < TU) V US=TU)] ~ (TUS4)
Well-formed formula (WFF)
P71Q
APQV R
CPICE These are bad examples!

-2. Truth tables.  AND P Q PAQ  T T T  T F F  F T F  F F F	OR P Q PUQ T T T T F T P T T F P
NOT P 7P T F F T	
ef. PQ ¬CPAQ)  FF T  FT T  TF T  T F  ¬(PAQ) = ¬P v ¬Q These  "De Morgan's Law"	PQ7P7Q7PV7Q FFTTTT FTTTTTTTTTTTTTTTTTTTTTTTTTTTT
ef. PQ PULPAQ)  FF F  FT F  TT T  TT T  P = PULPAQ)	