Curious OCaml

From logic rules to programming constructs

What logical connectives do you know?

Т		٨	V	\rightarrow
truth "trivial"	falsehood "impossible" shouldn't get	$a \wedge b$ conjunction a and b got both	$a \lor b$ disjunction $a \text{ or } b$ got at least one	$a \rightarrow b$ implication a gives b given a , we get b

How can we define them? Think in terms of derivation trees:

a premise another premise	a premise another premise			
some fact	another fact			
final conclusion				

To define the connectives, we provide rules for using them: for example, a rule $\frac{a \ b}{c}$ matches parts of the tree that have two premises, represented by variables a and b, and have any conclusion, represented by variable c.

Rules for Logical Connectives

Introduction rules say how to produce a connective. Elimination rules say how to use it. Text in parentheses is comments. Letters are variables: stand for anything.

Try to use only the connective you define in its definition.

TODO