Table 1: Proof terms for logical connectives

connective	introduction (how to prove)	elimination (how to use)
$\rightarrow$	`fun H => _`	`M N`
$\wedge$	`conj`	`match H with conj H1 H2 => _ end`
$\vee$	`or_introl, or_intror`	`match H with or_introl H' => _	or_intror H' => _ end`
$\bot$		`match H with end`
$\forall$	`fun x => _`	`M x`
$\exists$	`ex_intro _ x Hx`	`match H with ex_intro _ x Hx => _ end`
$\neg$		$\neg\varphi \equiv \varphi \rightarrow \bot$
$\leftrightarrow$		$\varphi \leftrightarrow \psi \equiv (\varphi \rightarrow \psi) \wedge (\psi \rightarrow \varphi)$

Table 2: Basic tactics for logical connectives

connective	introduction (how to prove)	elimination (how to use)
$\rightarrow$	`intro, intros`	`apply, eapply`
$\wedge$	`split`	`destruct H as [H1 H2]`
$\vee$	`left, right`	`destruct H as [H1|H2]`
$\bot$		`destruct H, exfalso`
$\forall$	`intro, intros`	`apply, eapply`
$\exists$	`exists, eexists`	`destruct H as [x Hx]`
$\neg$	`intro, intros`	`apply, eapply`
$\leftrightarrow$	`split`	`apply, apply <-, apply ->, eapply`