A glimpse of Lean Tactic cheatsheet

Logical symbol	Appears in goal	Appears in hypothesis h
\forall (for all)	intro x	apply h or specialize h x
\exists (there exists)	use x	rcases h with $\langle x, hx \rangle$
\rightarrow (implies)	intro h	apply h or specialize h1 h2
$\leftrightarrow (\text{if and only if})$	constructor	rw [h]
\wedge (and)	constructor	h.1 or h.2

Tactic	Effect	
	Rewriting and simplifying	
ring	prove the goal by using the axioms of a commutative ring.	
rw [expr]	in the goal, replace (all occurrences of) the left-hand side of $expr$ by its right-hand side. $expr$ must be an equality, iff statement or definition.	
rw [$expr$] at h	rewrite in hypothesis h.	
simp	simplify the goal using all simplifications lemmas.	
unfold	unfold the definition of the given term.	
	Reasoning with equalities, inequalities, and other relations	
calc?	generate a calc block	
calc $a = b$:= by tac _ $\leq c$:= by tac _ $< d$:= by tac	perform a calculation generate a new step by putting the cursor after := by and shift-click on subterms in the goal.	
congr	prove an equality using congruence rules.	
gcongr	prove an inequality using congruence rules.	
	Searching	
apply?	gives a list of lemmas that can apply to the current goal.	