#### Where does Coq define booleans and numbers?

What's a "type" in Coq?

### Make a named assertion that ~true is false, then prove it.

#### Name three ways to check that a function works.

How might you create "unit tests"?

#### Apply negation to the boolean true and evaluate.

How do you fill in a hole in a `Definition`/`Fixpoint'? In an `Example`?

### How does Coq write the type of a boolean conjunction function?

**Software Foundations** 

•

What does the Check command do?

How will we use the module system?

What is an enumerated type?

#### When we use Inductive to define a type, we should see it as what?

#### What "magic" does Coq provide for natural numbers?

### What is the fundamental difference between a data constructor and functions?

### Name some keywords that can introduce a function.

What kind of recursion does Coq allow?

What notational convenience does Coq provide for multiple parameters of the same type?

#### How does one match on *multiple* expressions?

### What is an underscore in the context of match expressions?

#### How is "language support" introduced for some definitions?

Name three kinds of language support available.

How can one choose between multiple notation interpretations for an expression.

Name a few notation scopes.

# What two tactics simplify the goal by performing computation?

#### The reflexivity tactic implicitly does what?

What's the difference between the simplification of simpl and that of reflexivity?

# Why doesn't reflexivity's implicit simplification unfold definitions?

#### What keywords behave identically to Theorem?

What is the "context"?

What does the intros tactic do?

What is the syntax of intros?

Some of the simple intros examples don't actually require intros. Give two reasons you might actually need it in a proof.

Describe the rewrite tactic.

What does rewriting *left-to-write* mean?

### How are are propositions with multiple hypothesis written?

#### Why can't simple calculation prove every theorem?

Describe the destruct tactic.

Why don't we say destruct b as [true | false].?

destruct is used to prove a theorem about an enumerated type for each possible ...

What do Case/SCase/etc do?

Don't confuse Case with ...

What is the syntax of the induction tactic?

What do context items like IHn' stand for?

Name some fundamental facts concerning our definition of plus comes up over and over?

### How can you create sub-theorems without creating a new top-level name?

# What is a common non-stylistic reason for using assert?