Explain the `generalize dependent` tactic.

?

What is a proposition?

What is a `Prop`?

A proposition is a mathematical statement expressing a factual claim. It may or may not be provable.

A `Prop` is the type of expressions that represent propositions.

Name the two simplest ways to create propositions expression.

- Assert that one expression is equal to another.
- Given propositions expressions `P` and `Q`, assert `P->Q`.

The definition `even` has the type `nat->Prop`.
Give three ways to pronounce this.

- `even` is a *function* from numbers to propositions.
- `even` is a *family* of propositions, indexed by a number `n`.
- `even` is a *property* of numbers.