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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.

- Assert that one expression is equal to another.
- Given propositions expressions P and Q , assert $P \rightarrow Q$.

- 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.