## Math 7

Spring 2012
The Coffee Proof

Claim: No amount of coffee is enough to wake me up in the morning.
Proof: I prove by induction on $n$ that for every natural number $n \geq 1$, it is true that $n$ drops of coffee are not enough to wake me up in the morning.
Base Case: One drop of coffee makes no difference in how I feel, so one drop of coffee is not enough to wake me up.

Inductive Case: Assume that $n$ drops of coffee are not enough to wake me up in the morning. One more drop isn't going to make any difference, so $n+1$ drops of coffee are not enough, either.
QED

