## Proof By Contradiction Skeleton

Suppose, for the sake of contradiction $\neg p$
$q$
...
$\neg q$
But $q$ and $\neg q$ is a contradiction! So we must have $p$.

## Another Proof By Contradiction

Claim: There are infinitely many primes.
Proof:

## Just the Skeleton

"For all integers $x$, if $x^{2}$ is even, then $x$ is even."

## Just the Skeleton

"There is not an integer $k$ such that for all integers $n, k \geq n$.

