HANDOUT: Outline for Induction Proofs

CLAIM: For all integers $n \geq a$ [**PUT GOAL**] is true

PROOF:

Let P(n) be [**PUT A DEFINITION OF P(n)**]

We use induction.

Basis step: [**PUT AN ARGUMENT FOR P(a)**]

Induction step: [**PUT AN ARGUMENT THAT P(k) IMPLIES P(k+1)**]

Thus by the principle of mathematical induction P(n) is true for all integers $n \geq a$.

END PROOF.