

**Step 1: What You're Proving**

State the 'for all' statement that you want to prove:

**Step 2: Induction Parameter**

We prove this by induction on \_\_\_\_\_

**Step 3: Base Case**

Prove the base case(s):

**Step 4: Induction Step**

Write the induction step:

For a given \_\_\_\_\_

**Step 5: Induction Hypothesis**

State the Induction Hypothesis:

I can assume, for all \_\_\_\_\_

**Step 6: What You're Proving Inductively**

State what you want to prove:

I want to prove \_\_\_\_\_

**Step 7: Proof**

Inductively prove what you stated in Step 6 using your Induction Hypothesis stated in Step 5.

**Step 8: Declare Victory**

State what you just proved.

Therefore, \_\_\_\_\_