The theorem to prove is the following:

**Sum of the first \( n \) consecutive positive integers.** For any positive integer \( n \), we have,

\[
1 + 2 + \ldots + n = \frac{n(n+1)}{2}
\]

1. **Do some examples**
   Before proving something, always try it out first.

2. **Draw your examples**
   Draw a picture of the example to see if you can engage your geometric intuition.

3. **Proof by logical reasoning**
   Reason about this directly.

4. **Proof by contradiction**
   See why if it were not true, something would go wrong.

5. **Proof by induction**
   Use the machinery of induction to prove it.