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Example: $\sum_{i=1}^{n} i = n(n+1)/2$ B as case n = 1 LHS = 1 and RHS = 1(1+1)/2 = 1 Note: we can do this manually for n = 2, 3, ... Let's assume it holds for arbitrary n ≥ 1, we now prove it also holds for arbitrary n ≥ 1, we now prove it also holds for arbitrary n ≥ 1. We now prove it also holds for arbitrary n ≥ 1, we now prove it also holds for arbitrary n ≥ 1, we now prove it also holds for arbitrary n ≥ 1, we now prove it also holds for arbitrary n ≥ 1, we now prove it also holds for arbitrary n ≥ 1, we now prove it also holds for arbitrary n ≥ 1, we now prove it also holds for arbitrary n ≥ 1, we now prove it also holds for arbitrary n ≥ 1, we now prove it also holds for arbitrary n = 1, now prove arbitrary n ≥ 1, we now prove it also holds for arbitrary n ≥ 1, we now prove it also holds for arbitrary n ≥ 1, we now prove it also holds for arbitrary n ≥ 1, we now prove it also holds for arbitrary n ≥ 1, we now prove it also holds for arbitrary n ≥ 1, we now prove it also holds for arbitrary n ≥ 1, we now prove it also holds for arbitrary n ≥ 1, we now prove it also holds for arbitrary n ≥ 1, we now prove it also holds for arbitrary n ≥ 1, we now prove it also holds for arbitrary n ≥ 1, we now prove it also holds for arbitrary n ≥ 1, we now prove it also holds for arbitrary n ≥ 1, we now prove it also holds for arbitrary n ≥ 1, we now prove arbitrary n ≥ 1