First Course in Abstract Algebra Rings Groups and Fields 3rd Edition Anderson Solutions Manual

Chapter 1 — The Natural Numbers

1. This is obvious if $n = 1$. Assume the theorem is true for integers less than n. Given the equation
$$1 + 2 + \cdots + (n - 1) = \frac{(n - 1)n}{2},$$
add the next term n to both sides. Elementary algebra gives
$$\frac{(n - 1)n}{2} + n = \frac{n(n + 1)}{2},$$
showing that the theorem is true for n. The theorem follows by the principle of mathematical induction.

2. Proceed as in the previous exercise, by adding n^2 to both sides and simplifying.

3. The theorem is obvious for one summand. We then have that
$$|x_1 + x_2 + \cdots + x_n| \leq |x_1 + x_2 + \cdots x_{n-1}| + |x_n| \leq |x_1| + |x_2| + \cdots |x_{n-1}| + |x_n|,$$
as required, where the first inequality follows from the triangle inequality, and the second uses the induction hypothesis.

4. Define $0! = 1$ and $n! = n \cdot (n - 1)!$ for $n > 0$.

5. Note that here your base case for induction is when $n = 4$. (You can easily check that this statement is false for $n = 1, 2,$ and 3.) For the induction step, we have that
$$2^n = 2 \cdot 2^{n-1} < 2 \cdot (n - 1)! < n \cdot (n - 1)! = n!,$$
as required, where the first inequality holds by the induction hypothesis, and the second because $2 < n$.

6. In this exercise proceed as in Exercises 1 and 2 by adding the nth term n^2 to the equation given by the induction hypothesis for $n - 1$.

7. We first show (by induction) this is true for $a = 1$, and then just multiply by a. As in Exercises 1, 2 and 6, merely add the nth term to the equation from the induction hypothesis.

8. The algebra here is simple if we apply the partial fraction decomposition
$$\frac{1}{n(n + 1)} = \frac{1}{n} - \frac{1}{n + 1}.$$
This makes it simple to apply the usual strategy of adding the nth term to both sides.

9. 4 (see Theorem 2.4).

10. A complete graph on 1 point has 0 edges. If $n > 1$, select a point and consider the subgraph on the remaining $n - 1$ points. By the induction hypothesis, this subgraph has $(n - 1)(n - 2)/2$ edges (lines). But the selected point has $n - 1$ edges connected to it, for a total of $(n - 1)(n - 2)/2 + n - 1 = n(n - 1)/2$ edges.

11. The base case is when $n = 1$ and when $n = 2$. For the induction step, assume $n > 2$. Then $a_n = 2a_{n-1} - a_{n-2} = 2 - 1 = 1$, as required.

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