Solutions Manual for An Introduction To Abstract Algebra With Notes To The Future Teacher 1st Edition by Nicodemi
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An Introduction to Abstract Algebra with Notes to the Future Teacher Complete Solutions

Chapter 1

Section 1.1

1.

i. The answer is yes because any nonempty set of positive integers has a smallest member by the Well-Ordering Principle. The smallest member is 1 because we can write 1 as $1 = 139 \cdot 397 - 102 \cdot 541$.

ii. No. If $\frac{m}{n}$ is in the set, then $\frac{m}{2n}$ is also in the set. So there is no smallest member. The Well-Ordering Principle does not apply because the set in question is not a subset of the integers.

2. Let $P(n)$ be the statement that $1 + 3 + \ldots + (2n - 1) = n^2$. Then $P(1)$ is the statement that $1 = 1^2$, which is true. Now suppose that $P(n)$ is true. We prove that $P(n + 1)$ is true, namely, that $1 + 3 + \ldots + (2n - 1) + (2n + 1) = (n + 1)^2$. By our induction hypothesis, we can substitute n^2 for $1 + 3 + \ldots + (2n - 1)$. So we are left to prove that $n^2 + (2n + 1) = (n + 1)^2$, which is clearly true.

3. Let $n = 1$. Then $\frac{1 - r^{n+1}}{1 - r} = \frac{1 - r^2}{1 - r} = \frac{(1 - r)(1 + r)}{1 - r} = (1 + r)$ since $r \neq 1$. Assume $1 + r + r^2 + \ldots + r^n = \frac{1 - r^{n+1}}{1 - r}$. Then $1 + r + r^2 + \ldots + r^n + r^{n+1} = \frac{1 - r^{n+1}}{1 - r} + r^{n+1} = \frac{1 - r^{n+1}}{1 - r} + \frac{(1 - r)r^{n+1}}{1 - r} = \frac{1 - r^{n+1}}{1 - r} + \frac{r^{n+1} - r^{n+2}}{1 - r} = \frac{1 - r^{n+2}}{1 - r}$.

4. Let $n = 1$. Then $n^3 + 2n = 3$, which is a multiple of 3. Assume $n^3 + 2n$ is a multiple of 3. We must show that $(n + 1)^3 + 2(n + 1)$ is a multiple of 3. Now $(n + 1)^3 + 2(n + 1) = n^3 + 3n^2 + 3n + 1 + 2n + 2$, which equals $(n^3 + 2n) + 3n^2 + 3n + 3$. Since $(n^3 + 2n)$ is a multiple of three, and $3n^2 + 3n + 3 = 3(n^2 + n + 1)$, $(n + 1)^3 + 2(n + 1)$ is a multiple of 3.

5. If there is one person in the room, there are 0 handshakes. Assume that if n people are in the room, there are $\frac{n(n-1)}{2}$ handshakes. If an $(n + 1)^{st}$ person enters the room then n more handshakes will occur, making the total $\frac{n(n-1)}{2} + n$. Now $\frac{n(n-1)}{2} + n = \frac{n(n-1)}{2} + \frac{2n}{2} = \frac{n^2 - n}{2} + \frac{2n}{2} = \frac{n^2 + n}{2} = \frac{n(n+1)}{2}$.

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