

SOLUTION MANUAL FOR A FIRST COURSE IN ABSTRACT ALGEBRA, WITH APPLICATIONS 8TH EDITION BY JOSEPH J. ROTMAN LATEST 2024

Exercises for Chapter 1

1.1 True or false with reasons.

- (i) There is a largest integer in every nonempty set of negative integers.

Solution. True. If C is a nonempty set of negative integers, then

$$-C = \{-n : n \in C\}$$

is a nonempty set of positive integers. If $-a$ is the smallest element of $-C$, which exists by the Least Integer Axiom, then $-a \leq -c$ for all $c \in C$, so that $a \geq c$ for all $c \in C$.

- (ii) There is a sequence of 13 consecutive natural numbers containing exactly 2 primes.

Solution. True. The integers 48 through 60 form such a sequence; only 53 and 59 are primes.

- (iii) There are at least two primes in any sequence of 7 consecutive natural numbers.

Solution. False. The integers 48 through 54 are 7 consecutive natural numbers, and only 53 is prime.

- (iv) Of all the sequences of consecutive natural numbers not containing 2 primes, there is a sequence of shortest length.

Solution. True. The set C consisting of the lengths of such (finite) sequences is a nonempty subset of the natural numbers.

- (v) 79 is a prime.

Solution. True. $\sqrt{79} < \sqrt{81} = 9$, and 79 is not divisible by 2, 3, 5, or 7.

- (vi) There exists a sequence of statements $S(1), S(2), \dots$ with $S(2n)$ true for all $n \geq 1$ and with $S(2n-1)$ false for every $n \geq 1$.

Solution. True. Define $S(2n-1)$ to be the statement $n \neq n$, and define $S(2n)$ to be the statement $n = n$.

- (vii) For all $n \geq 0$, we have $n \leq F_n$, where F_n is the n th Fibonacci number.

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Chao Zhang



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