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Exercises for Chapter 2

Exercises for Section 2.1: Statements

2.1 (a) A false statement.

(b) A true statement.

(c) Not a statement.

(d) Not a statement (an open sentence). (e) Not a statement.

(f) Not a statement (an open sentence). (g) Not a statement.

2.2 (a) A true statement since $A = \{3n - 2 : n \in \mathbb{N}\}$ and so $3 \cdot 9 - 2 = 25 \in A$.

(b) A false statement. Starting with the 3rd term in D, each element is the sum of the two preceding terms. Therefore, all terms following 21 exceed 33 and so $33 \notin D$.

(c) A false statement since $3 \cdot 8 - 2 = 22 \in A$.

(d) A true statement since every prime except 2 is odd.

(e) A false statement since B and D consist only of integers. (f) A false statement since 53 is prime.

2.3 (a) False. $\emptyset$ has no elements. (b) True.

(c) True.

(d) False. $\{\emptyset\}$ has $\emptyset$ as its only element. (c) True.

(f) False. 1 is not a set.

2.4 (a) $x = -2$ and $x = 3$.

(b) All $x \in \mathbb{R}$ such that $x = -2$ and $x = 3$.

2.5 (a) $\{x \in \mathbb{Z} : x \geq 2\}$

(b) $\{x \in \mathbb{Z} : x \leq 2\}$

2.6 (a) A can be any of the sets $\emptyset, \{1\}, \{2\}, \{1, 2\}$, that is, A is any subset of $\{1, 2, 4\}$ that does not contain 4.

(b) A can be any of the sets $\{1, 4\}, \{2, 4\}, \{1, 2, 4\}, \{4\}$, that is, A is any subset of $\{1, 2, 4\}$ that contains 4.

Mathematical Proofs Solutions Manual

Richard Bailey

Mathematical Proofs Solutions Manual:

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