

**Solution Manual for Mathematical Proofs A
Transition to Advanced Mathematics 3rd Edition
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9780321797094**

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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 $A = \{3n - 2 : n \in \mathbf{N}\}$ 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.
 (e) True.
 (f) False. 1 is not a set.

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