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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  $3 \cdot 9 2 = 25 \in A$ .

  - (c) A false statement since 3 · 8 − 2 = 22 ∈ 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. 0 has no
  - elements. (b) True.
  - (c) True.
  - (d) False. (0) has 0 as its only
  - element. (e) True.
  - (f) False. I 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)  $\{x \in Z : x \gg 2\}$ 
  - (b)  $\{x \in Z : x \le 2\}$
- 2.6 (a) A can be any of the sets 0, (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.

# <u>Mathematical Proofs Chartrand Solutions Manual 3rd</u> <u>Edition</u>

**Albert A Gayle** 

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