

SET THEORY PROBLEMS SOLUTIONS

* (1) Formal as a Tux and Informal as Jeans

Describe the following sets in both formal and informal ways.

<i>Formal Set Notation Description</i>	<i>Informal English Description</i>
a) $\{2, 4, 6, 8, 10, \dots\}$	The set of all positive even integers
b) $\{\dots, -3, -1, 1, 3, \dots\}$	The set of all odd integers
c) $\{n \mid n = 2m \text{ for some } y \in \mathbb{N}\}$	The set of all positive even integers (using the convention that 0 is not a natural number)
d) $\{x \mid x=2n \text{ and } x=2k \text{ for some } n, k \in \mathbb{N}\}$	The set of all positive multiples of 6
e) $\{b \mid b \in \mathbb{Z} \text{ and } b=b+1\}$	\emptyset
f) $\{2, 20, 200\}$	The set containing the numbers 2, 20, and 200
g) $\{n \mid n \in \mathbb{Z} \text{ and } n > 42\}$	The set containing all integers greater than 42
h) $\{n \mid n \in \mathbb{Z} \text{ and } n < 42 \text{ and } n > 0\}$ $= \{n \mid n \in \mathbb{N} \text{ and } n < 42\}$	The set containing all positive integers less than 42
i) $\{\text{hello}\}$	The set containing the string hello
j) $\{\text{bba}, \text{bab}\}$	The set containing the strings bba and bab
k) $\emptyset = \{\}$	The set containing nothing at all
l) $\{\epsilon\}$	The set containing the empty string

Set Theory Problems And Solutions

Terry C. Jones



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