

Discrete Mathematics

Section 1: Sets

Questions

- List the elements in the following sets:
 - $\{x \in \mathbb{R} \mid x^2 = 4\}$
 - $\{x \in \mathbb{Z}^+ \mid x < 8\}$
 - $\{x \in \mathbb{Z}^+ \mid x \text{ is the largest positive integer such that } x^2 < 100\}$
- Let $A = \{2, 4, 6, 8\}$, $B = \{4, 6\}$, and $C = \{4, 6, 8\}$. Determine which of the sets are subsets of the others.
- For each of the following sets, determine if the integer 1 is an element of that set:
 - $A = \{x \in \mathbb{R} \mid x \text{ is an integer greater than or equal to } 1\}$
 - $B = \{1, 1\}$
 - $C = \{1, \{1\}\}$
 - $D = \{\{1\}, \{1, \{1\}\}\}$
- Determine whether each of the following statements is true or false:
 - $\emptyset \in \emptyset$
 - $\emptyset \in \{\emptyset\}$
 - $\{\emptyset\} \subseteq \{\emptyset\}$
 - $\{\emptyset\} \subseteq \emptyset$
 - $\emptyset \in \{\emptyset, \emptyset\}$
- Using set-builder notation, describe the following sets:
 - $\{0, 2, 4, 6, 8\}$
 - $\{\frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \frac{1}{5}, \dots\}$
- Find the power set of each of these sets:
 - $\{1\}$
 - $\{1, 2\}$
 - $\{1, \{1\}\}$
- Determine whether each of these sets is the power set of another set.
 - \emptyset
 - $\{\emptyset, \{1\}, \{1, \emptyset\}\}$
 - $\{\emptyset, \{1\}\}$

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ML Morrison



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