

班级 计71

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科目

离散

第

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T₁

$$(4). A_4 = \left\{ \{0, -2\}, \{0, -1\}, \{0, 0\}, \{0, 1\}, \{1, -2\}, \{1, -1\}, \{1, 1\}, \right. \\ \left. \{2, -2\}, \{2, -1\}, \{2, 0\}, \{2, 1\} \right\}.$$

T₂ (4).

$$A = \{x \mid x > 2 \wedge x \in \mathbb{N} \wedge (\forall y) ((y > 2 \wedge y \in \mathbb{N}) \rightarrow (\frac{x}{y} \notin \mathbb{N} - \{1\}))\}$$

T₃.

$$A = \{1\}, B = \{\{1\}, \{2\}\}, C = \{\{\{1\}, \{2\}\}, \{3\}\}$$

T₄.

$$A = \{1\}, B = \{\{1\}, \{2\}\}, C = \{\{\{1\}, \{2\}\}, \{1\}\}$$

T₆.

(1) 真 由 $B \subseteq C$ 知 $(\forall x)(x \in B \rightarrow x \in C)$.

而 $A \in B$, 故 $A \in C$.

(2) 假.

(3) 假

$$A = \{\{1\}\}, B = \{\{1\}, \{2\}\}, C = \{\{\{1\}, \{2\}\}, \{3\}\}$$

(4) 假.

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$$(2) P = \{ \emptyset, \{ \{1, \{2\} \} \} \}$$

$$(3) P = \left\{ \begin{array}{l} \emptyset, \{a\}, \{\{b\}\}, \{\emptyset, \{b\}\}, \{\emptyset, a\}, \{a, \{b\}\}, \\ \{\emptyset, a, \{b\}\}, \{\emptyset\} \end{array} \right\}$$

$$(5) P(P(\emptyset)) = \{ \emptyset, \{ \emptyset \} \}$$

$$\therefore \text{序式} = \{ \emptyset, \{ \emptyset \} \} \times \{ \emptyset, \{ \emptyset \} \}$$

$$= \{ \langle \emptyset, \emptyset \rangle, \langle \emptyset, \{ \emptyset \} \rangle, \langle \{ \emptyset \}, \emptyset \rangle, \langle \{ \emptyset \}, \{ \emptyset \} \rangle \}$$