CS101A-计算机导论-Assignment 1

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Ex.0

(a). PDF

(b). The assignment will get 0 points.

Ex.1

$|\{\emptyset\}| = 1$

Ex.2

C. $A = \{1\}$, $P(A) = \{1\}$, but $|A| = |P(A)|$.

D. $S = \{1, 2\}$, $P = \{1, 2, 3\}$, $S - P = \emptyset$, but $S \neq P$.

Ex.3

(a). $\{0, 1, 2, 4\}$

(b). $\{(0, 1), (2, 1), (4, 1)\}$

(c). $\{0, 2, \{0, 2\}, \{0, 4\}, \{2, 4\}, \{0, 2, 4\}\}$

(d). $\emptyset$

Ex.4

(a). $R_{LT5} = \{(0, 1), (0, 2), (0, 3), (0, 4), (1, 2), (1, 3), (1, 4), (2, 3), (2, 4), (3, 4)\}$

(b). d.f.g.h

Ex.5

(a). True, because it is reflexive, symmetric and transitive.

(b). $[0]_\equiv = \{0, 1\}$

$A/ \equiv = \{[0]_\equiv, [2]_\equiv\} = \{\{0, 1\}, \{2\}\}$