$A \nsubseteq C$。

1.5 令 $A = \{a\}, B = \{\{a\}\}, C = \{\{\{a\}\}\}$，则有 $A \in B \wedge B \in C$，但 $A \notin C$。

1.6

(1) 0 元集：$\varnothing$
1 元集：$\{a\}, \{b\}, \{c\}$
2 元集：$\{a, b\}, \{a, c\}, \{b, c\}$
3 元集：$\{a, b, c\}$
幂集：$\{\varnothing, \{a\}, \{b\}, \{c\}, \{a, b\}, \{a, c\}, \{b, c\}, \{a, b, c\}\}$

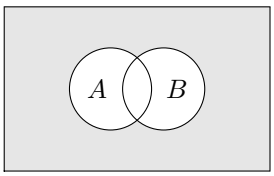
(2) 0 元集：$\varnothing$
1 元集：$\{1\}, \{\{2, 3\}\}$
2 元集：$\{1, \{2, 3\}\}$
幂集：$\{\varnothing, \{1\}, \{\{2, 3\}\}, \{1, \{2, 3\}\}\}$

(3) 0 元集：$\varnothing$
1 元集：$\{\varnothing\}, \{\{\varnothing\}\}$
2 元集：$\{\varnothing, \{\varnothing\}\}$
幂集：$\{\varnothing, \{\varnothing\}, \{\{\varnothing\}\}, \{\varnothing, \{\varnothing\}\}\}$

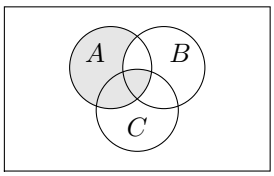
(4) 0 元集：$\varnothing$
1 元集：$\{\{1, 2\}\}$
幂集：$\{\varnothing, \{\{1, 2\}\}\}$

(5) 0 元集：$\varnothing$
1 元集：$\{\{\varnothing, 1\}\}, \{1\}$
2 元集：$\{\{\varnothing, 1\}, 1\}$
幂集：$\{\varnothing, \{\{\varnothing, 1\}\}, \{1\}, \{\{\varnothing, 1\}, 1\}\}$

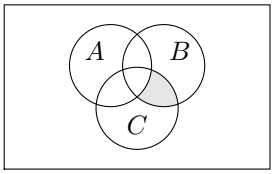
1.7



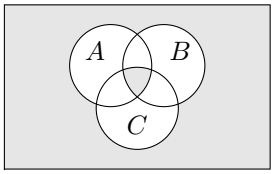
$\sim(A \cup B)$



$A \cap (\sim B \cup C)$



$\sim A \cap (B \cap C)$



$(A \cap B \cap C) \cup \sim(A \cup B \cup C)$

1.8

(1) $\{4\}$;
(2) $\{1, 3, 5\}$;