

$$1.) \quad A = \{1, 2, 3, 4, 5\}$$

$$P(A) = \{ \{1\}, \{2\}, \{3\}, \{4\}, \{5\}, \{1, 2\}, \{1, 3\}, \{1, 4\}, \{1, 5\}, \{2, 3\}, \{2, 4\}, \{2, 5\}, \{3, 4\}, \{3, 5\}, \{4, 5\}, \{1, 2, 3\}, \{1, 2, 4\}, \{1, 2, 5\}, \{1, 3, 4\}, \{1, 3, 5\}, \{1, 4, 5\}, \{2, 3, 4\}, \{2, 3, 5\}, \{2, 4, 5\}, \{3, 4, 5\}, \{1, 2, 3, 4\}, \{1, 2, 3, 5\}, \{2, 3, 4, 5\}, \{1, 2, 3, 4, 5\}, \{\}, \{1, 2, 4, 5\}, \{1, 3, 4, 5\} \}$$

$$2.) \quad A = \{k, l, m\}, \quad B = \{m, n, o, p\}$$

$$A \cup B = \{k, l, m, n, o, p\}$$

$$A \cap B = \{m\}$$

$$A - B = \{k, l\}$$