

60 $U = \{x | 0 \leq x \leq 15, x \in \mathbb{Z}\}$ を全体集合とする. その部分集合 A, B, C を

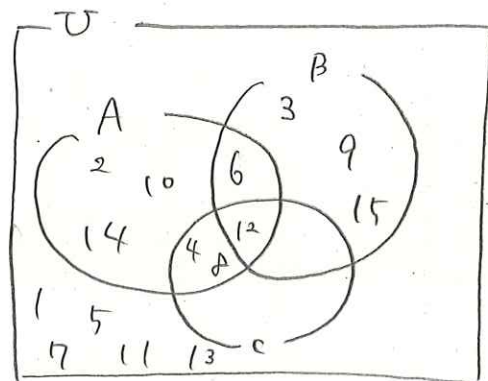
$$A = \{2, 4, 6, 8, 10, 12, 14\}$$

$$B = \{3, 6, 9, 12, 15\}$$

$$C = \{4, 8, 12\}$$

と定める. このとき, 以下の集合を求めよ.

$$(1) A \cap B = \{6, 12\}$$



$$(2) A \cup B = \{2, 3, 4, 6, 8, 9, 10, 12, 14, 15\}$$

$$(3) \overline{A \cap C} = \emptyset$$

$$(4) \overline{A \cap B} = \{1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 13, 14, 15\}$$

$$(5) \overline{A \cup B} = \{1, 5, 7, 11, 13\}$$

$$(6) A \cup B \cup C = \{2, 3, 4, 6, 8, 9, 10, 12, 14, 15\}$$

$$(7) A \cap B \cap C = \{12\}$$

$$(8) \overline{A \cap B \cap C} = \emptyset$$