

補集合の性質

① $A \cap \overline{A} = \emptyset$

*A*であって、*A*でないもの → そんなものない！

② $A \cup \overline{A} = U$

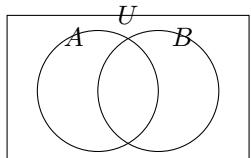
*A*と*A*でないものを合わせたら → 全部じゃんか！

③ $\overline{\overline{A}} = A$

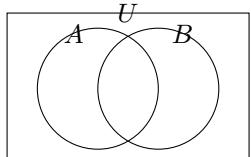
*A*でないのではない。→ それは、、*A*だ！

例 10 次の式のあてはまる部分をベン図の該当箇所を示しなさい。

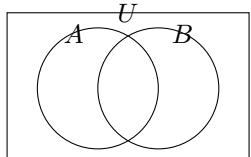
(1) $A \cap B$



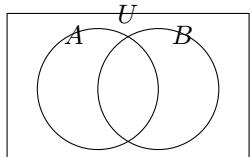
(2) $A \cup B$



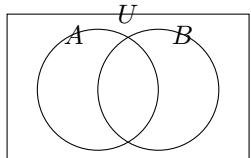
(3) $\overline{A} \cap B$



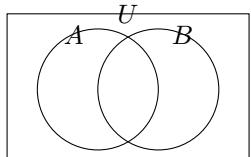
(4) $\overline{A} \cup B$



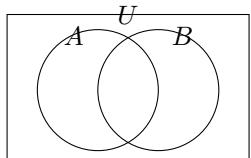
(5) $A \cap \overline{B}$



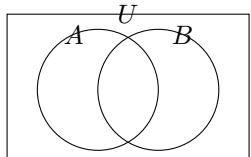
(6) $A \cup \overline{B}$



(7) $\overline{A} \cap \overline{B}$



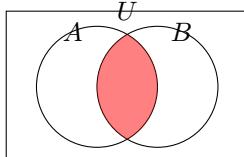
(8) $\overline{A} \cup \overline{B}$



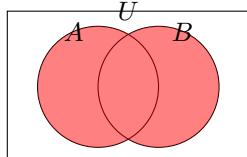
問 10

次の⑦から⑩のうち、互いに補集合の関係となっているものはどれとどれか。全て選びなさい。

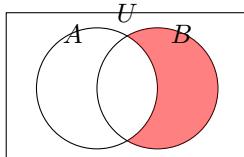
⑦ $A \cap B$



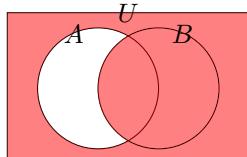
⑧ $A \cup B$



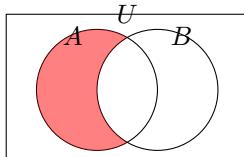
⑨ $\overline{A} \cap B$



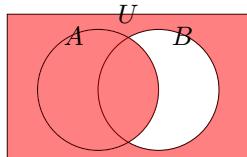
⑩ $\overline{A} \cup B$



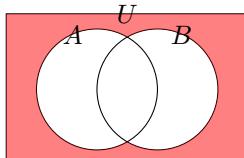
⑪ $A \cap \overline{B}$



⑫ $A \cup \overline{B}$



⑬ $\overline{A} \cap \overline{B}$



⑭ $\overline{A} \cup \overline{B}$

