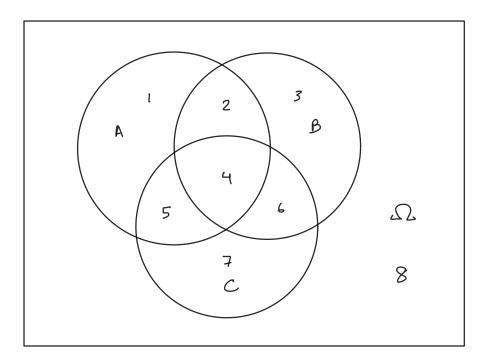
OneNote 4/10/20, 3:40 AM

Problem 1: Venn Diagrams

Saturday, March 28, 2020 9:27 PM



E1 = ANB
$$\cap$$
 C \leftarrow 4
 $\varepsilon^2 = (ANB \cap C)^c \leftarrow 1,2,3,5,6,7$
 $\varepsilon^3 = ANB \cap C^c \leftarrow 2$
 $\varepsilon^4 = BU(B^c \cap C^c) \leftarrow$

$$E5 = A^{c} \cap B^{c} \cap C^{c} \leftarrow 8$$

$$E6 = (A \cap B) \cup (A \cap C) \cup (B \cap C) \leftarrow 2, 4, 5, 6$$

$$(2, 4) + (5, 4) + (4, 6)$$

$$E7 = (A \cap B^{c} \cap C^{c}) \cup (A^{c} \cap B \cap C^{c}) \cup (A^{c} \cap B^{c} \cap C)$$

$$[(1,2,5,4) \cap (1,5,7,8) \cap (1,2,3,8)] \cup [(3,5,7,8) \cap (1,5,7,8) \cap (1$$

[1]v[3]v[= 1,3