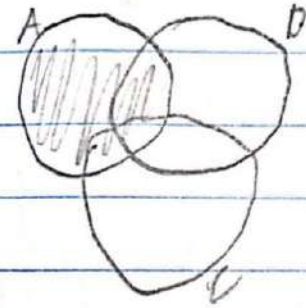
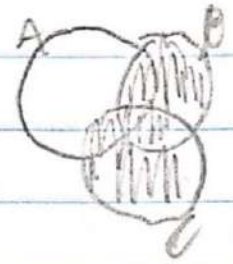
Lista 03

(9)

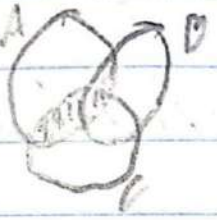
A



$B \cup C$



$A \cap (B \cup C)$



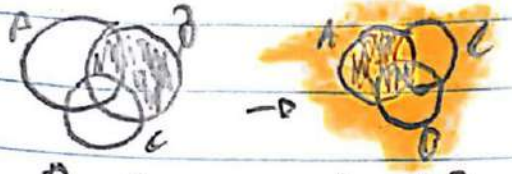
$\cap$

$A \cap B$

$A \cap C$

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

② a) $A-(B-C)=(A-B)-C$ ✗



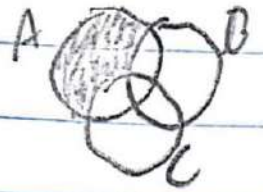
$B-C$

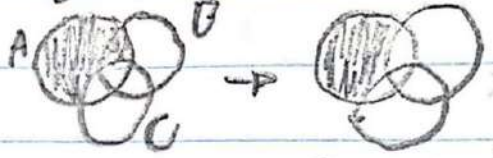
$A-(B-C)$

$A-B$

$(A-B)-C$

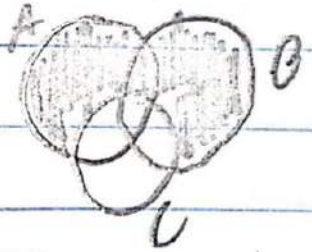
b) $(A-B)-C=(A-C)-B$ ✓



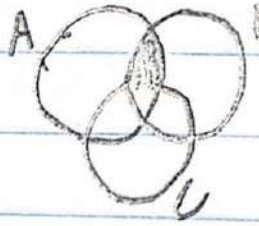


$A-C$ $\qquad$ $(A-C)-B$

c) $(A\cup B)-C=(A-C)\cap(B-C)$ ✗

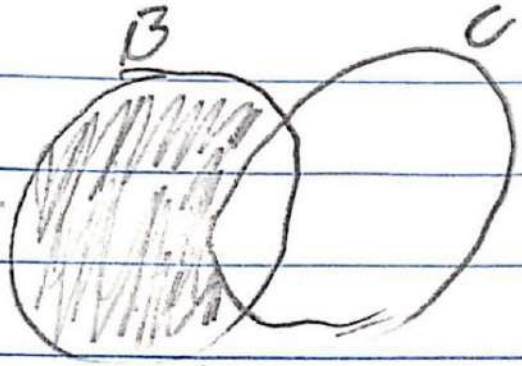


$(A\cup B)-C$

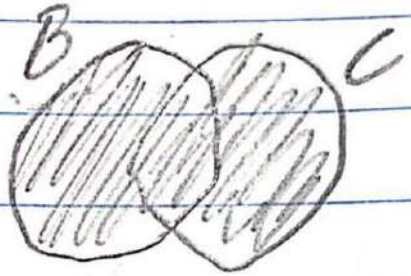


$(A-C)\cap(B-C)$

d) Se $A = B - C$, então $B = A \cup C$ X

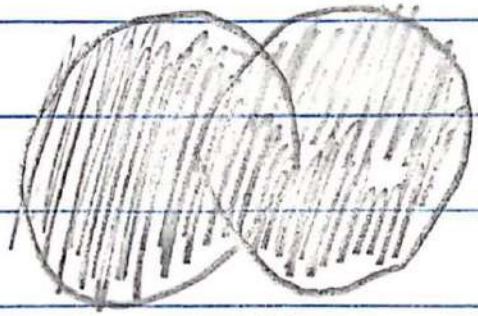


$B - C$

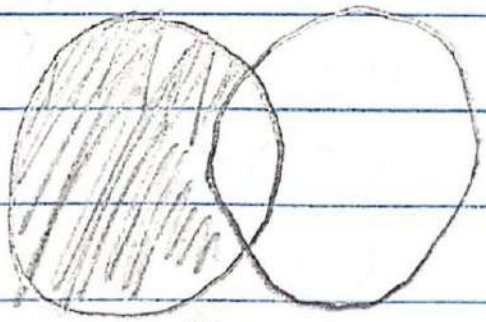


$A \cup C$

c) Se $B = A \cup C$, então $A = B - C$ X



$A \cup B$

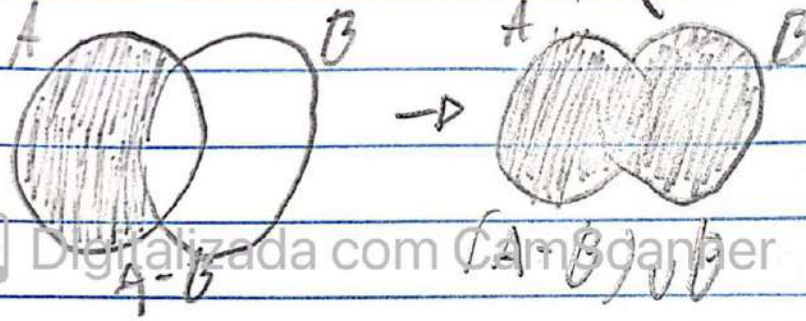


$B - C$

f) $|A-B| = |A|-|B|$ ✗ $|A|=3$, $|B|=3$ $\quad A-B=\{1\}$, $|A-B|=1$

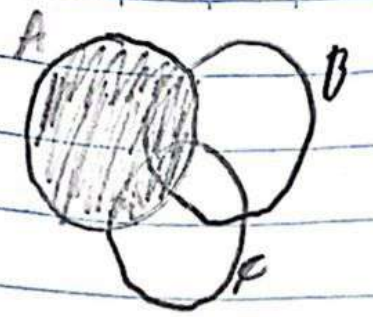
DC: $A=\{1,2,3\}$
$B=\{2,3,4\}$ $\quad 1 \neq 3-3$

g) $(A-B)\cup B = A$ ✗



$(A-B)\cup B \neq A$

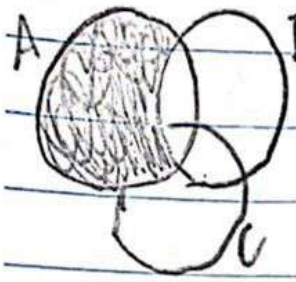
3



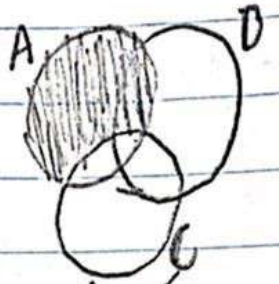
A

$B \cup C$

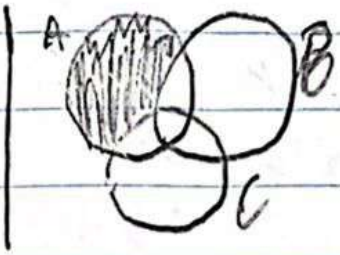
$A - (B \cup C)$



$A - B$

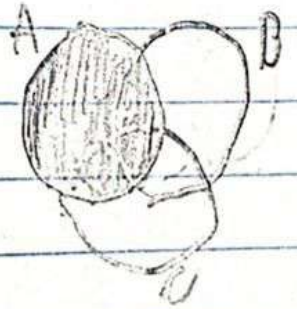


$A - C$

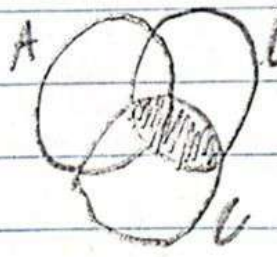


$(A - B) \cap (A - C)$

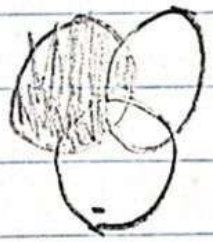
$$A - (B \cup C) = (A - B) \cap (A - C)$$



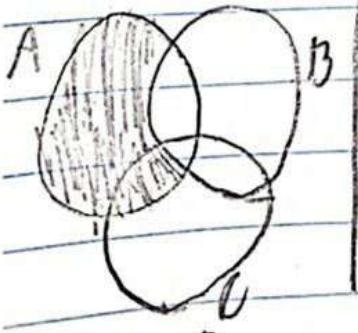
A



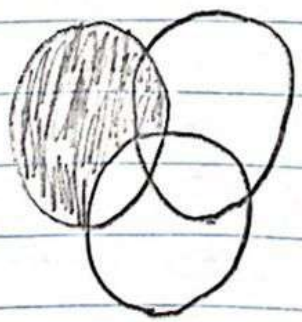
$B \cap C$



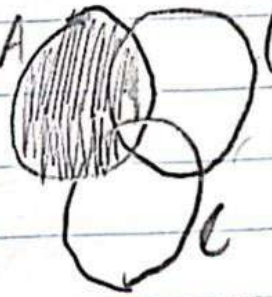
$A - (B \cap C)$



$A - B$



$A - C$



$(A - B) \cup (A - C)$

$$A - (B \cap C) = (A - B) \cup (A - C)$$

④ a) Existem inteiros que não são positivos

b) Para todo o inteiro, é falso que o inteiro mais 2 é igual o zero

c) Existem inteiros que não são maiores que 10

d) para todo inteiro, existem alguns que não são maiores que todos inteiros