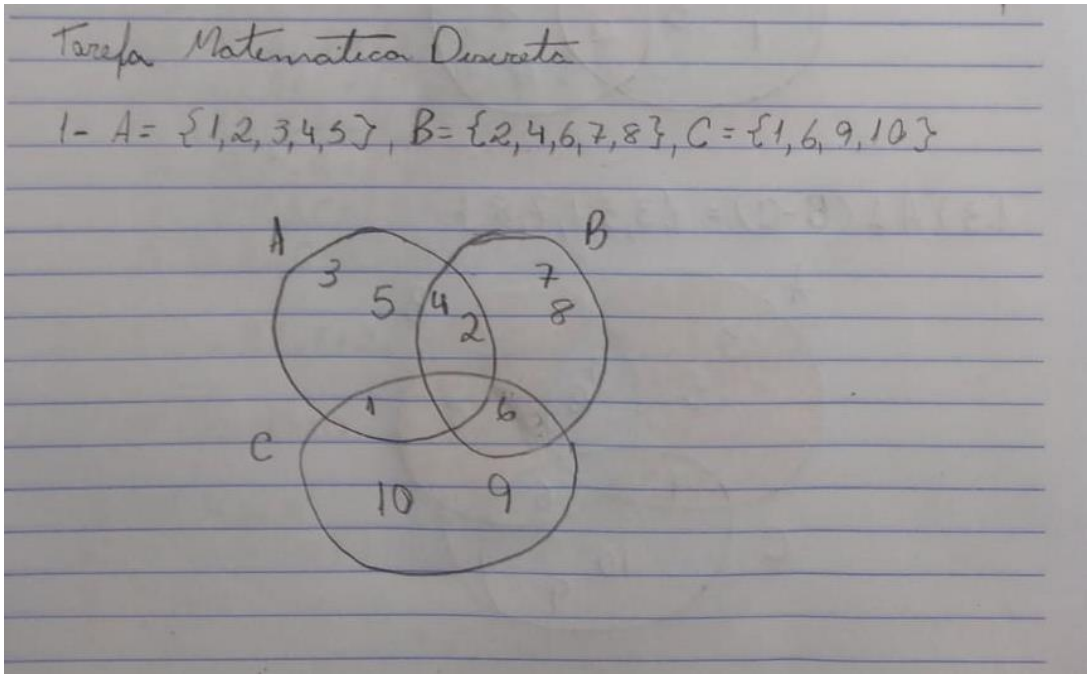
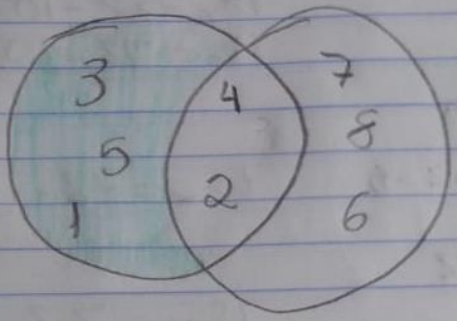
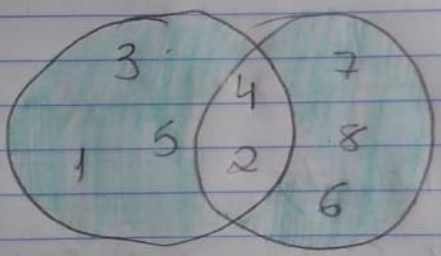
Tarefa Matemática Discreta Aula 07/05/2021



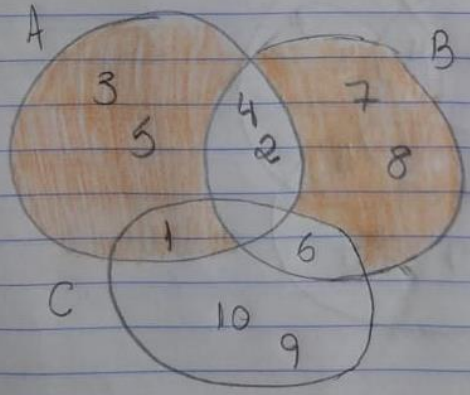
1.1) $A - B = \{3, 5, 1\}$



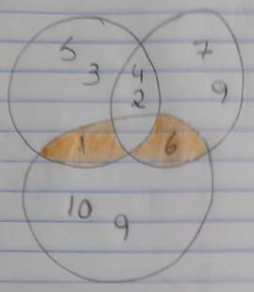
1.2) $A \Delta B = \{3, 5, 1, 7, 8, 6\}$



1.3) $A \Delta (B - C) = \{3, 5, 1, 7, 8\}$



1.4) $(A \cap C) - (B \Delta C) = \{1, 6\}$



2) 2.1) $A = \{5, 7, 8, 6, 4, 3\}$
2.2) $B = \{8, 64, 10, 12\}$
2.3) $C = \{1, 2, 10, 6, 4, 3\}$
2.4) $A \cap B = \{8, 6, 4\}$
2.5) $A \cap C = \{3, 6, 4\}$
2.6) $C - B = \{3, 1, 2,\}$
2.7) $A - B = \{5, 7, 3\}$
2.8) $B \Delta C = \{3, 1, 2, 8, 12\}$
2.9) $A \Delta C = \{5, 7, 3, 10, 12\}$

3) $A \{x \in \mathbb{R} / x^2 + 2x - 15 = 0\}$ e $B = \{1, 3, 5, 7\}$

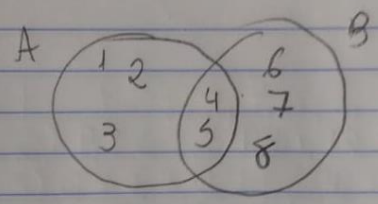
$x^2 + 2x - 15 = 0$ $\quad a = 1, b = 2, c = -15$

$\Delta = b^2 - 4.a.c$
$\Delta = 2^2 - 4.1.(-15)$
$\Delta = 4 + 60$
$\Delta = 56$

$x_{1,2} = \frac{-b \pm \sqrt{\Delta}}{2.a}$

$x_{1,2} = \frac{-2 \pm \sqrt{56}}{2.1}$

4 - $A \cup B = \{1, 2, 3, 4, 5, 6, 7, 8\}$
$A \cap B = \{4, 5\}$
$A - B = \{1, 2, 3$



$B = \{6, 7, 8\}$