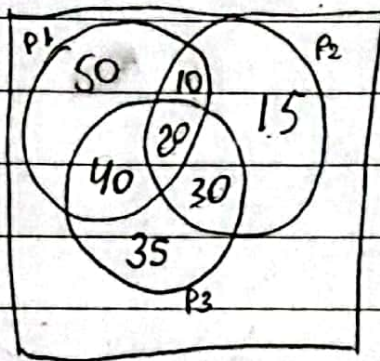


Atividade 1 - Matemática Discreta (PDF)

(Atividade 1 - MD.pdf)

1)



a) 35 pessoas

b) 100 pessoas

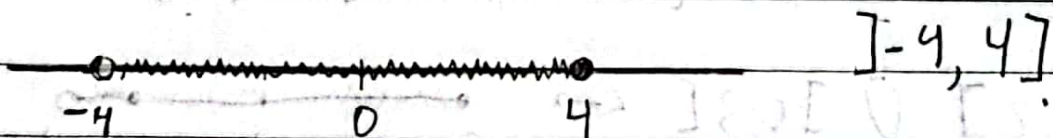
c) 75 pessoas

2) 2) "o conjunto de todos os números reais compreendidos entre -4 e 4, incluindo o 4"

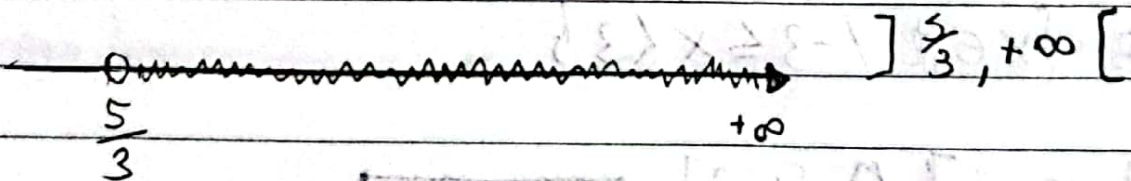
b) "O conjunto de todos os números reais maiores que $\frac{5}{3}$ "

c) "O conjunto de todos os números reais menores ou igual a 2"

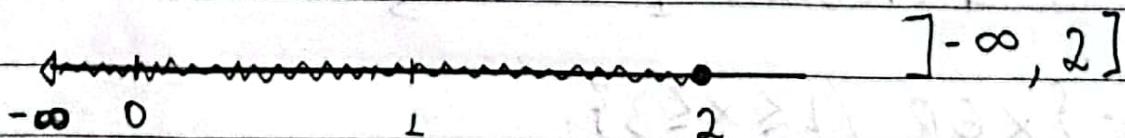
3) a)



b)



c)



4) a) $y^2 - 25 = 0$

$y^2 = 25$

$y = \pm 5$

$y = \{-5, 5\}$

b) $y^2 - 12y + 36 = 0$

$\Delta = -12^2 - 4 \cdot 1 \cdot 36$

$\Delta = 144 - 144$

$\Delta = 0$

$\frac{-(-12) \pm 0}{2 \cdot 1}$

$= 6$

$= 6$

$y = \{6\}$

$$c)]-2, 6[\text{ ou } \{y \in \mathbb{Z} / -2 < y < 6\}$$

$\therefore A$ (5)

$\therefore B$

$\therefore C$

$$5) a) \{x \in \mathbb{N} / x \leq 9\}$$

$$b) \{x \in \mathbb{N} / x \leq 6 \text{ e } x \text{ é par}\}$$

$$c) \{x \in \mathbb{N} / 11 \leq x \leq 14 \text{ e } x \text{ é ímpar}\}$$

$$d) \{x \in \mathbb{N} / x \leq 100\}$$

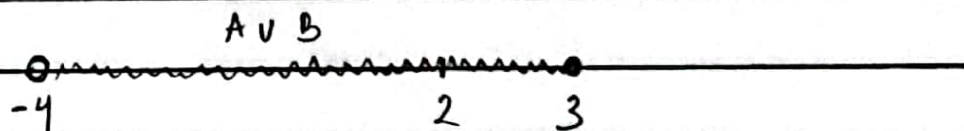
$$6) A = \{x \in \mathbb{Z} / -4 < x \leq 2\}$$

$$B = \{x \in \mathbb{N} / x \leq 3\}$$

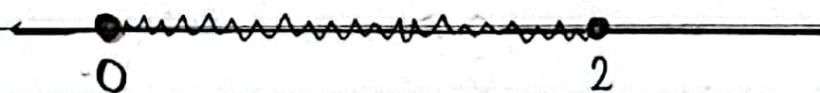
$$C = \{x \in \mathbb{Z} / -2 < x < 5\}$$

$$D = \{x \in \mathbb{Z} / 3 \leq x \leq 8\}$$

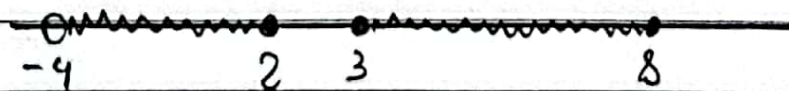
$$a) A \cup B$$



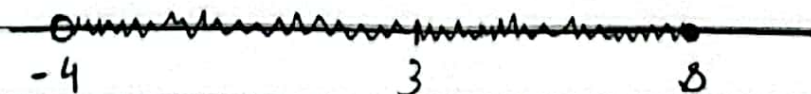
$$b) A \cap B$$



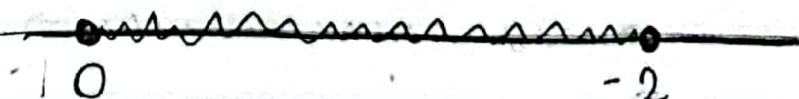
$$c) A \cup D$$



$$d) A \cup B \cup D$$



$$e) A \cap B \cap C$$



$$7) A = \{a, b, c, d\}$$

$$B = \{c, d, e, f, g\}$$

$$C = \{b, d, e, g\}$$

$$a) A - B = \{a, b\}$$

$$b) B - A = \{e, f, g\}$$

$$c) (A \cup C) - B = A \cap C = \{a, b, c, d, e, g\}$$

$$(A \cup C) - B = \{a, b\}$$

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

$$A \cup B = \{a, b, c, d, e, f, g\}$$

$$A \cap C = \{b, d\}$$

$$(A \cup B) - (A \cap C) = \{a, c, e, f, g\}$$