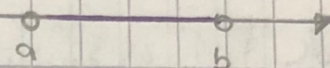


$$3a) \frac{\frac{2}{2} - \frac{3}{4}}{\frac{1}{2} - \frac{1}{3}} = \frac{\frac{5}{4}}{\frac{1}{6}} = \frac{15}{2}$$

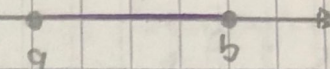
notación descripción de conjunto

Gráfico.

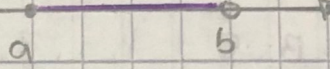
(a, b) $\{x | a < x < b\}$



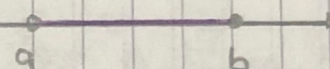
$[a, b]$ $\{x | a \leq x \leq b\}$



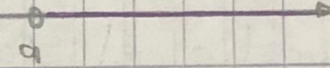
$[a, b)$ $\{x | a \leq x < b\}$



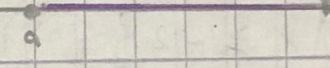
$(a, b]$ $\{x | a < x \leq b\}$



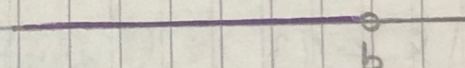
(a, ∞) $\{x | a < x\}$



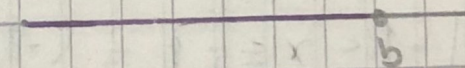
$[a, \infty)$ $\{x | a \leq x\}$



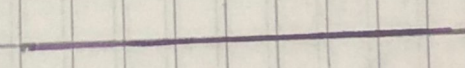
$(-\infty, b)$ $\{x | x < b\}$



$(-\infty, b]$ $\{x | x \leq b\}$



$(-\infty, \infty)$ \mathbb{R} (conjunto de todos los números reales)



$$39-1) A = \{1, 2, 3, 4, 5, 6, 7\}$$

$$B = \{2, 4, 6, 8\}$$

$$C = \{7, 8, 9, 10\}$$

$$40-1) A \cup B = \{1, 2, 3, 4, 5, 6, 7, 8\}$$

$$A \cap B = \{2, 4, 6\}$$

$$40-1) B \cup C = \{2, 4, 6, 7, 8, 9, 10\}$$

$$B \cap C = \{8\}$$

$$41-1) A \cup C = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$$

$$A \cap C = \{7\}$$

$$42-1) A \cup B \cup C = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$$

$$A \cap B \cap C = \{\} = \emptyset$$

43-1) Encuentre el conjunto indicado si

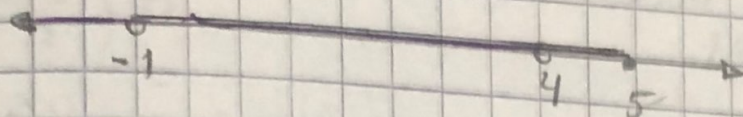
$$A-1) \{x | x \geq -2\} = [-2, \infty)$$

$$B-1) \{x | x < 4\} = (-\infty, 4)$$

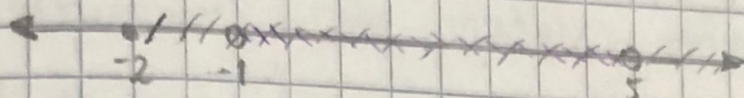
$$C-1) \{x | -1 < x \leq 5\} = (-1, 5]$$

43) B ∪ C

$$B \cap C = (-1, 4)$$

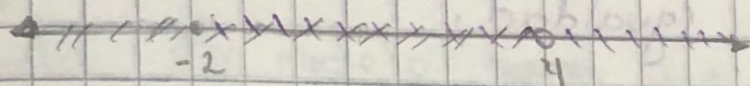


44) A ∩ C



$$(-1, 5)$$

b) A ∩ B

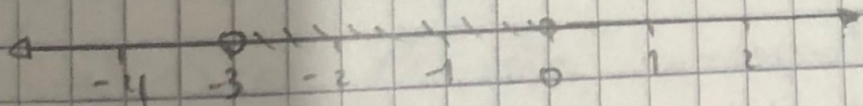


$$[-2, 4)$$

45) Expresar el intervalo en termino de desigualdades y, a continuacion graficar el intervalo.

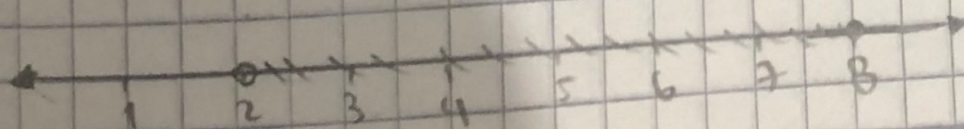
$$45) (-3, 0)$$

$$-3 < x < 0$$

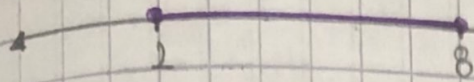


$$46) [2, 8]$$

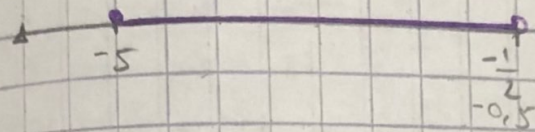
$$2 \leq x \leq 8$$



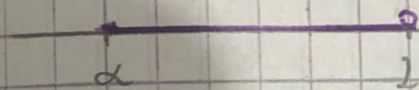
①
47-) $[2, 8] = 2 \leq x \leq 8$



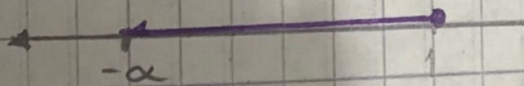
48-) $[-6, -\frac{1}{2}] = -6 \leq x \leq -\frac{1}{2}$



49-) $[2, \infty) = -\infty > x \geq 2$



50-) $(-\infty, 1) = x < 1$



51-) $x \leq 1 = (-\infty, 1]$

52-) $1 \leq x \leq 2 = [1, 2]$

53-) $-2 < x \leq 1 = (-2, 1]$

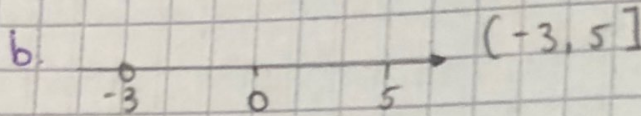
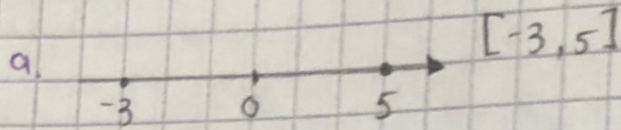
54-) $x \geq -5 = (-\infty, -5]$

55-) $x > -1 = (-1, \infty)$

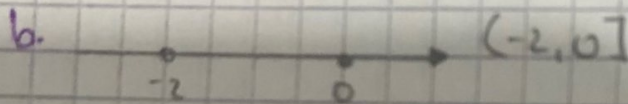
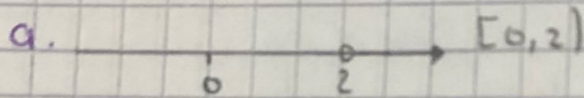
56-) $-5 < x < 2 = (-5, 2)$

57-58) Expresa cada conjunto de notación de intervalos.

57.)

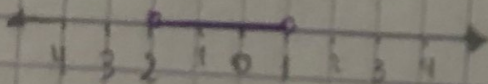


58.)

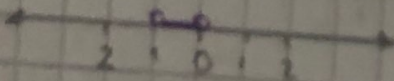


59-64) Grafique el conjunto

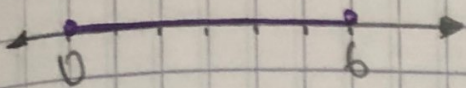
59.) $(-2, 0] \cup (-1, 1)$



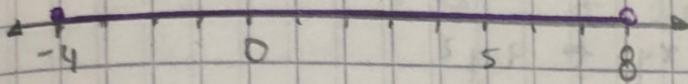
60.) $(-2, 0] \cap (-1, 1)$



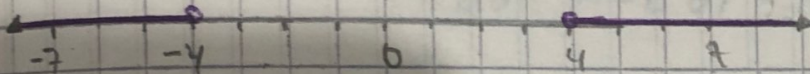
$$61.) [-4, 6] \cap [0, 8]$$



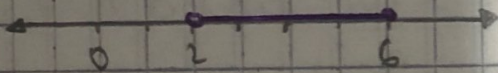
$$62.) [-4, 6] \cup [0, 8]$$



$$63.) (-\infty, -4) \cup (4, \infty)$$



$$64.) (-\infty, 6] \cap (2, 10)$$



65-70 = Evalúe cada expresión

$$65.) |100| = 100$$

$$b.) |-73| = 73$$

$$66.) |\sqrt{5} - 5| = 5 - \sqrt{5}$$

$$b.) |10 - \pi| = 10 - \pi$$

$$67.) |1 - 6| - |-4| = 6 - 4$$

$$b.) \frac{-1}{1-1} = \frac{-1}{1}$$

$$68.) |2 - |-12|| = 10$$

$$b.) -1 - |1 - |-1|| = -1$$

$$69.) |(-2) \cdot 6| = 12$$

$$b.) |(-\frac{1}{3})(-75)| = 5$$

$$70.) |\frac{-6}{24}| = \frac{1}{4}$$

$$b.) |\frac{7-12}{12-7}| = 1$$