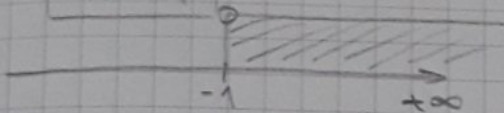


203. а) $x+3 < 4+2x$

$$x-2x < 4-3$$

$$-x < 1 \quad /: (-1)$$

$$x > -1$$



$$x \in (-1, +\infty)$$

б) $6x-2 < 12x+19$

$$6x-12x < 19+2$$

$$-6x < 21 \quad /: (-1)$$

$$6x > -21 \quad /: 6$$

$$x > \frac{-21}{6}$$

$$x > -\frac{7}{2}$$

$$x \in \left(-\frac{7}{2}, +\infty\right)$$

203. в) $4 - \frac{x-1}{6} \geq \frac{x}{3} \quad /: 6$

$$6 \cdot 4 - 6 \cdot \frac{x-1}{6} \geq 2 \cdot \frac{x}{2}$$

$$24 - 1(x-1) \geq 2x$$

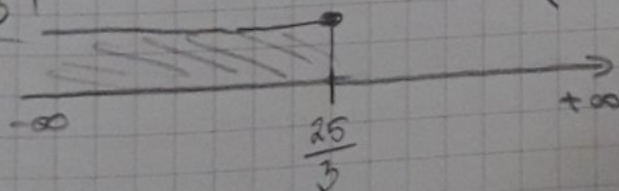
$$24 - x + 1 \geq 2x$$

$$-x - 2x \geq -24 - 1$$

$$-3x \geq -25 \quad /: (-1)$$

$$3x \geq 25 \quad /: 3$$

$$x \geq \frac{25}{3}$$



$$x \in \left(-\infty, \frac{25}{3}\right)$$

$$\textcircled{210.} \quad \text{3)} \quad \frac{x-3}{3} > 1 + \frac{x-6}{15} \quad / \cdot 15$$

$$5 \cdot \frac{x-3}{3} > 15 \cdot 1 + 15 \cdot \frac{x-6}{15}$$

$$5 \cdot (x-3) > 15 + x-6$$

$$5x - 15 > 15 + x - 6$$

$$5x - x > 15 - 6 + 15$$

$$4x > 24 \quad / : 4$$

$$\boxed{x > 6}$$

$$x \in (6, +\infty)$$

$$\text{6)} \quad \frac{x+1}{5} - \frac{x-3}{3} \leq \frac{2x-2}{5} - \frac{3-x}{2} \quad / \cdot 30$$

$$6 \cdot \frac{x+1}{5} - 10 \cdot \frac{x-3}{3} \leq 6 \cdot \frac{2x-2}{5} - 15 \cdot \frac{3-x}{2}$$

$$6(x+1) - 10(x-3) \leq 6(2x-2) - 15(3-x)$$

$$6x + 6 - 10x + 30 \leq 12x - 12 - 45 + 15x$$

$$6x + 10x - 12x - 15x \leq -12 - 45 - 6 - 30$$

$$-31x \leq -93 \quad / \cdot (-1)$$

$$31x \leq 93 \quad / : 31$$

$$\boxed{x \leq 3}$$

$$x \in [3, +\infty)$$

Значит: $\textcircled{211.}$ а) 3),