

$$\begin{aligned} &||2x-1|-5|+x=|6-x| \\ &|)x<-2 \\ &|-2x+1-5|+x=6-x \\ &|-2x-4|+x=6-x \\ &|-2x-4|=6-2x \\ &-2x-4=6-2x \\ &6=-4 \end{aligned}$$

НЕТ РЕШЕНИЙ

$$\begin{aligned} &||)-2 \leq x \leq 0.5 \\ &|-2x+1-5|+x=6-x \\ &|-2x-4|=6-2x \\ &2x+4=6-2x \\ &4x=2 \end{aligned}$$

$$x=0.5$$

$$\begin{aligned} &|||)0.5 < x \leq 3 \\ &|2x-1-5|+x=6-x \\ &|2x-6|=6-2x \\ &-2x+6=6-2x \\ &6-2x=6-2x \end{aligned}$$

$$x \in (0.5; 3]$$

$$\begin{aligned} &|V)3 < x \leq 6 \\ &|2x-1-5|+6=6-x \\ &|2x-6|+6=6-x \\ &2x-6=6-2x \\ &4x=12 \end{aligned}$$

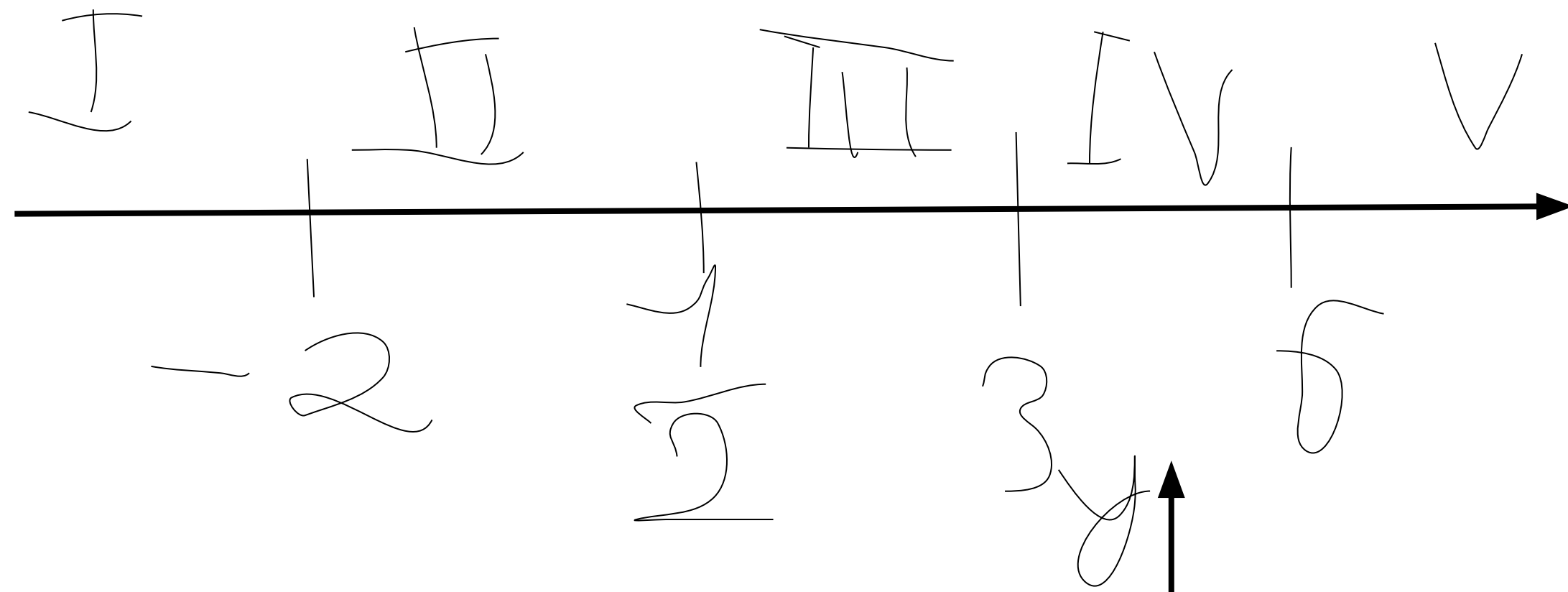
$$x=3$$

$$\begin{aligned} &|V)6 < x \\ &|2x-1-5|+x=x-6 \\ &|2x-6|=-6 \\ &2x-6=-6 \\ &x=0 \end{aligned}$$

Ответ:  $x \in [0.5; 3]$

$$\begin{aligned} &||2x-1|-5|=2 \\ &|2x-1|-5=2 \\ &|2x-1|-5=-2 \end{aligned}$$

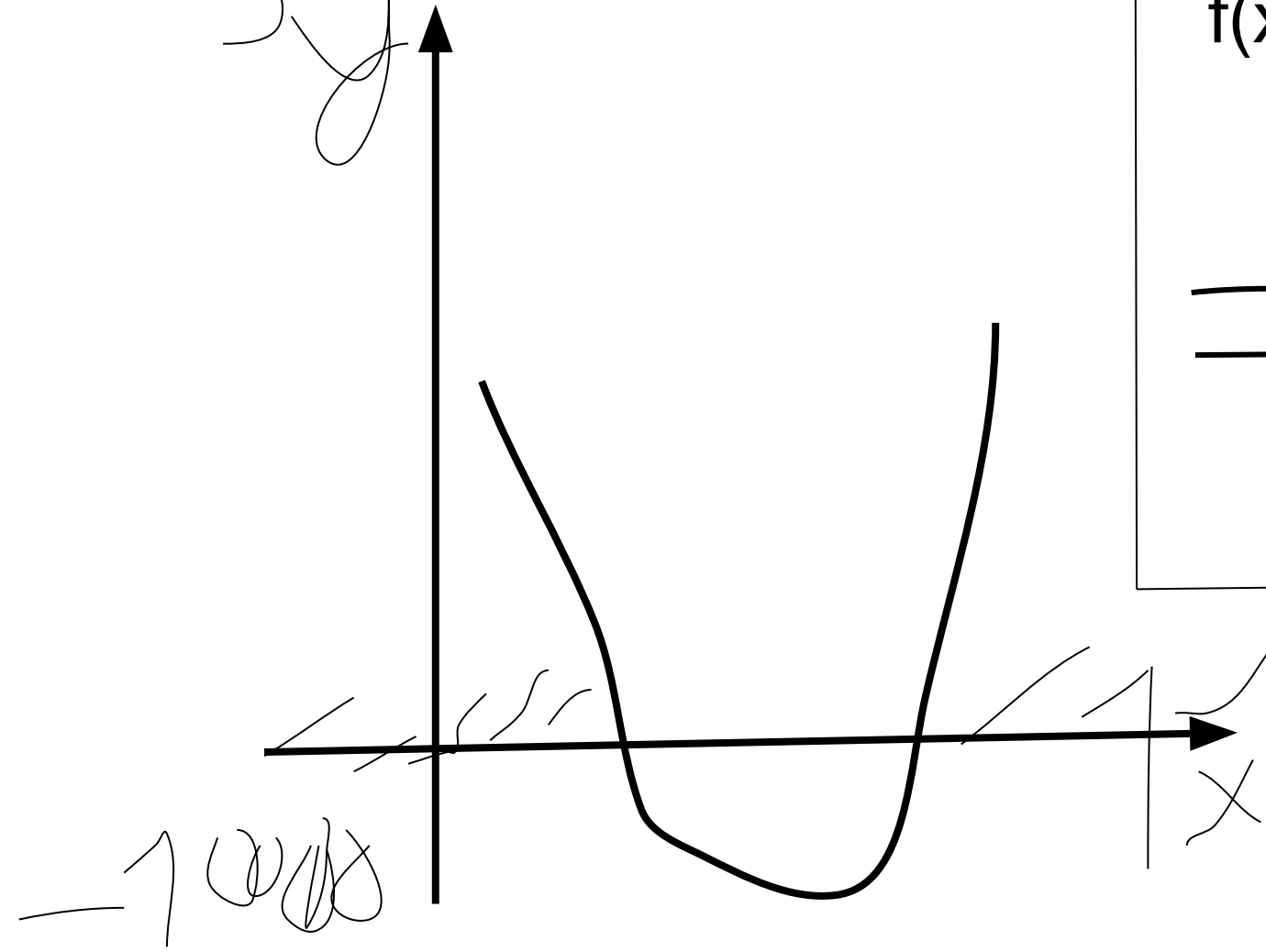
$$\begin{aligned} &|2x-1|-5=0 \\ &2x-1=5 \\ &2x-1=-5 \\ &2x=6 \quad x=3 \\ &2x=-4 \quad x=-2 \end{aligned}$$



$$\begin{aligned} &y=(x-5)^2 \\ &y=ax^2+bx+c \\ &x=-b/(2a) \end{aligned}$$

$$\begin{aligned} &y=x^2-5x+6 > 0 \\ &x_1=2 \quad x_2=3 \end{aligned}$$

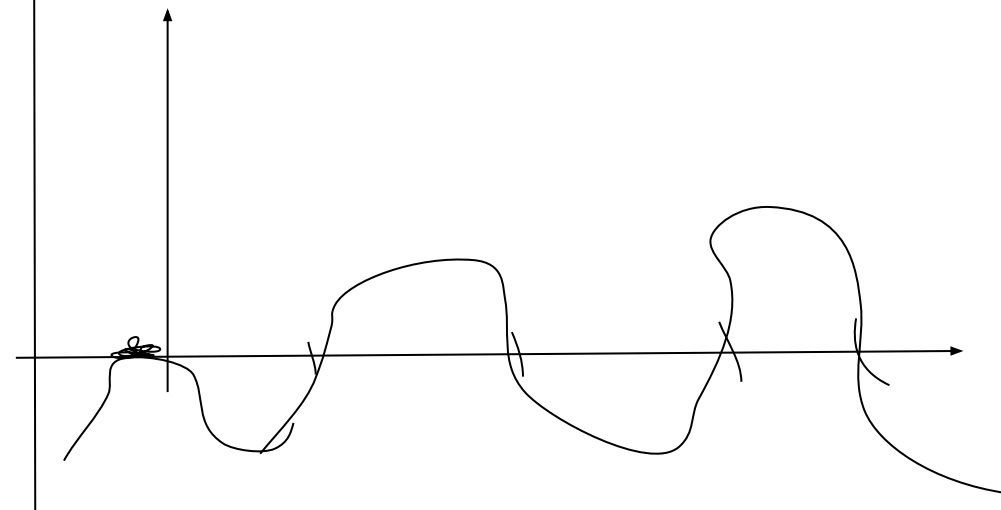
$$x \in (-\infty; 2) \cup (3; +\infty)$$



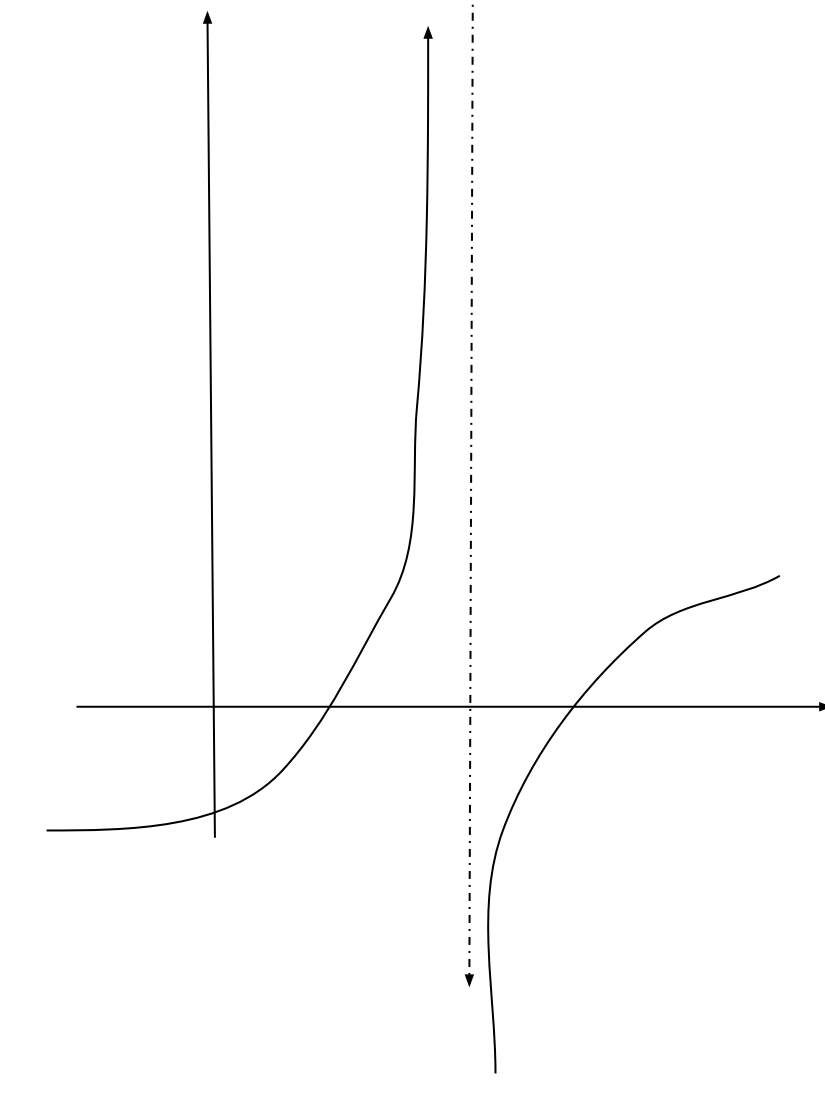
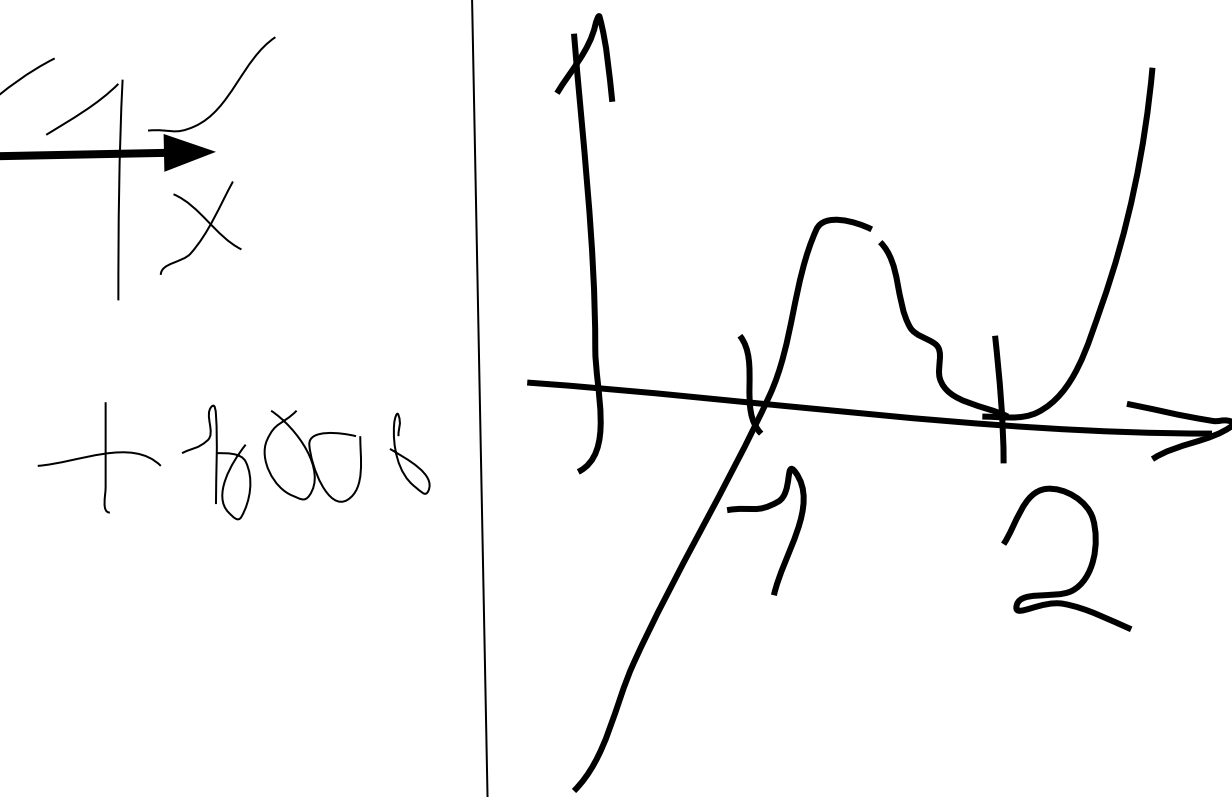
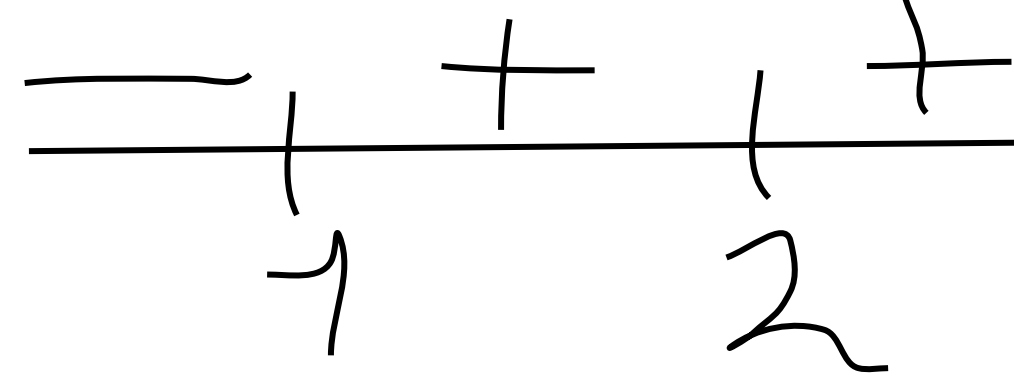
$$x^3-3x^2+2x+1 \leq 0$$

метод интервалов

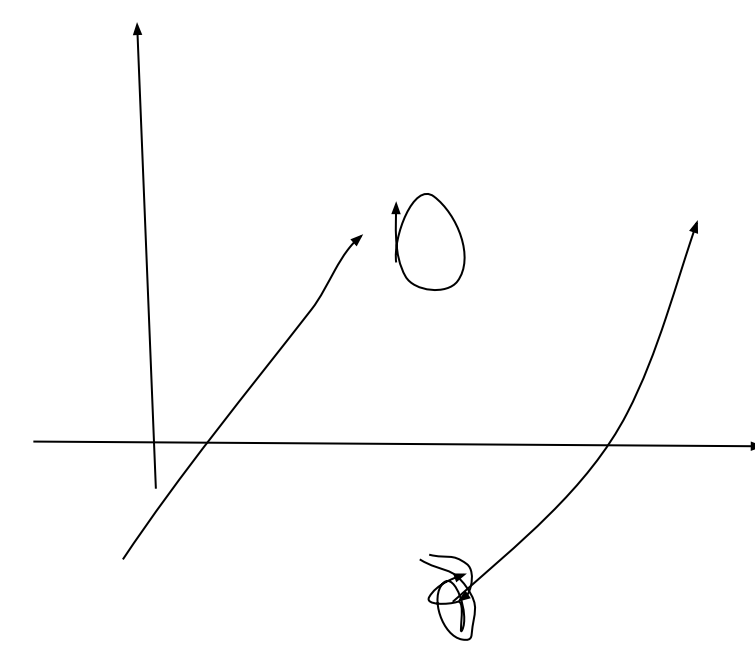
$$f(x) \geq 0 \quad f(x) = 0$$



$$\begin{aligned} &(x-2)^2(x-1) > 0 \\ &f(x) = (x-2)^2(x-1) \end{aligned}$$



$$y = -1/(x-2)$$



МЫ ИЗУЧАЕМ МАГИЮ

медузы

начало 60-х годов

американцы окружили СССР аэродромами с ядерными бомбардировщиками

Сергей Королев Р7

только Р7

Союз