

CLASSIFICAZIONE

ALGEBRICHE

RAZ

INT FR

$$y = x^2 - 3x + 1$$

D: $\forall x \in \mathbb{R}$



$$y = x - 1$$

$x \neq 0$

$x \neq 2$

$\forall x \in \mathbb{R} - \{2\}$



IRR

INT TR

indipar.

$$y = \sqrt{x-3}$$

$$x-3 \geq 0$$

$$x \geq 3$$

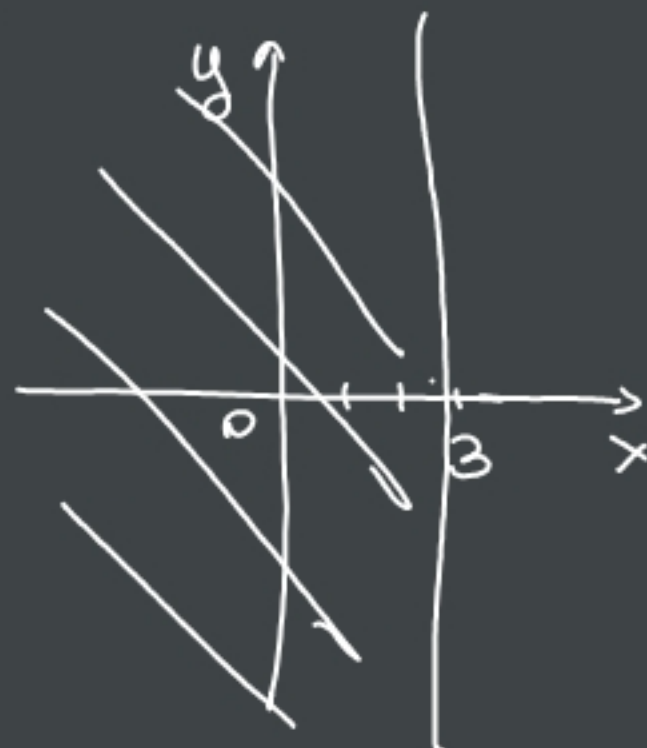
$3 \quad +\infty$

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

ind. dispar.

$$y = \sqrt[3]{x+2}$$

D: $\forall x \in \mathbb{R}$



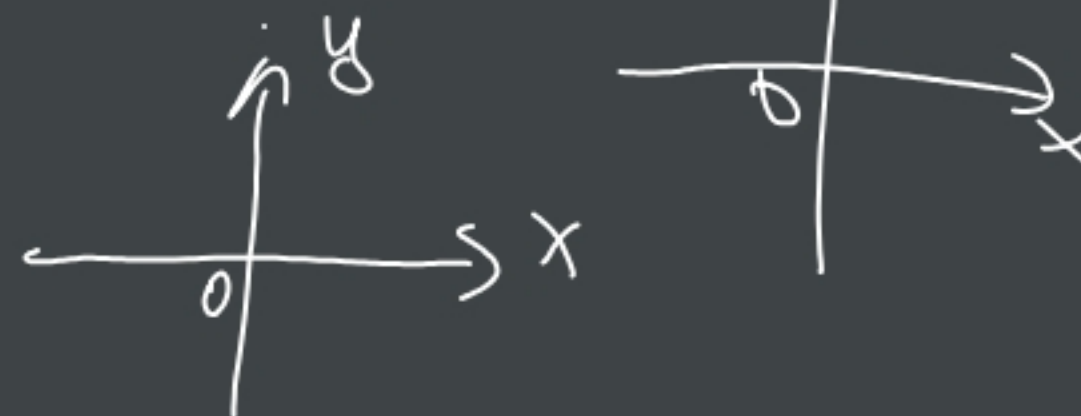
TRASCENDENTI

ESPOENZIALI

INT

$$y = 2^{x-3}$$

$\forall x \in \mathbb{R}$



FRATIE

$$\textcircled{1} y = \frac{2^{x-3}}{x-2}$$

$x \neq 2$

$$\textcircled{2} y = 2^{\frac{x-3}{x-2}}$$

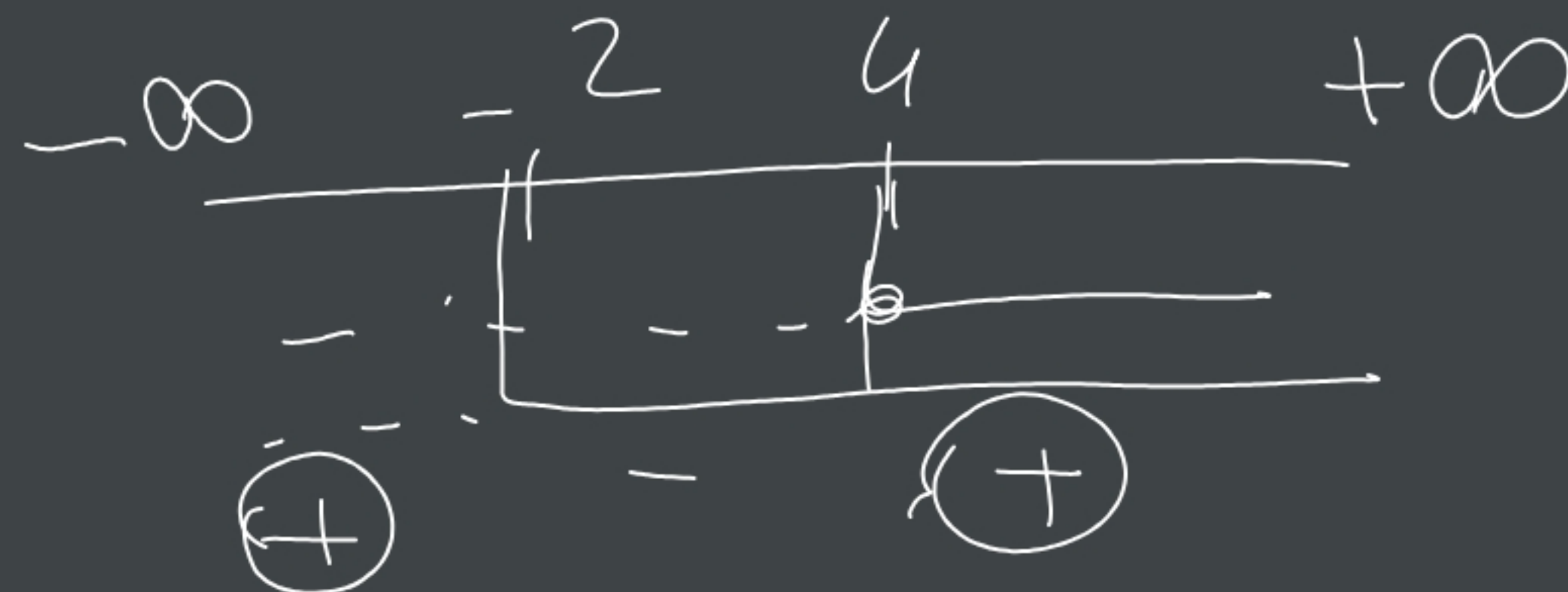
$x \neq 2$

IRR FRATE

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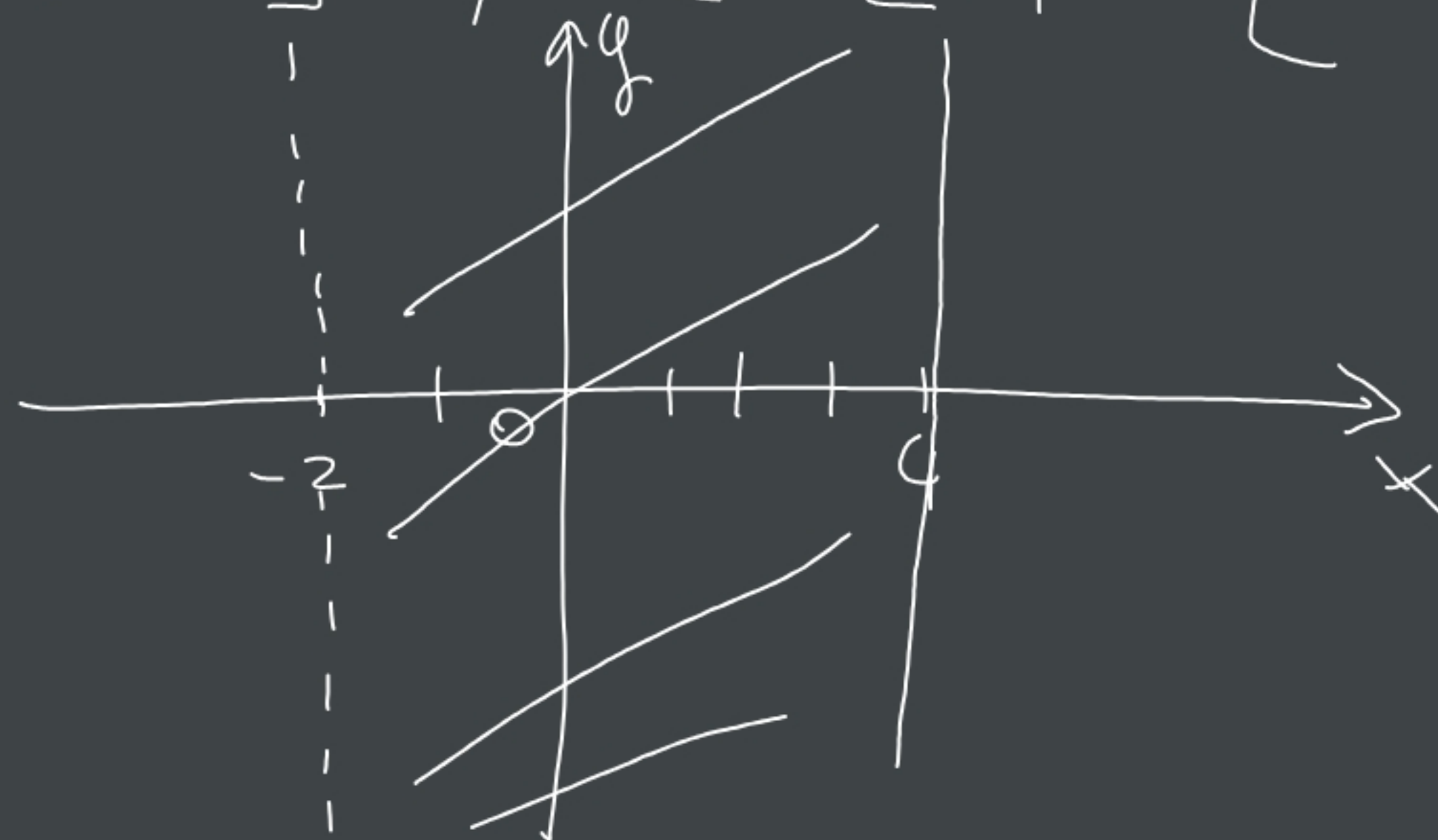
$$y = \sqrt{\frac{x-4}{x-2}}$$

$$\begin{cases} \frac{x-4}{x-2} \geq 0 \\ x-2 \neq 0 \end{cases} \begin{cases} x-4 \geq 0 \\ x-2 > 0 \end{cases} \begin{cases} x \geq 4 \\ x > -2 \end{cases}$$



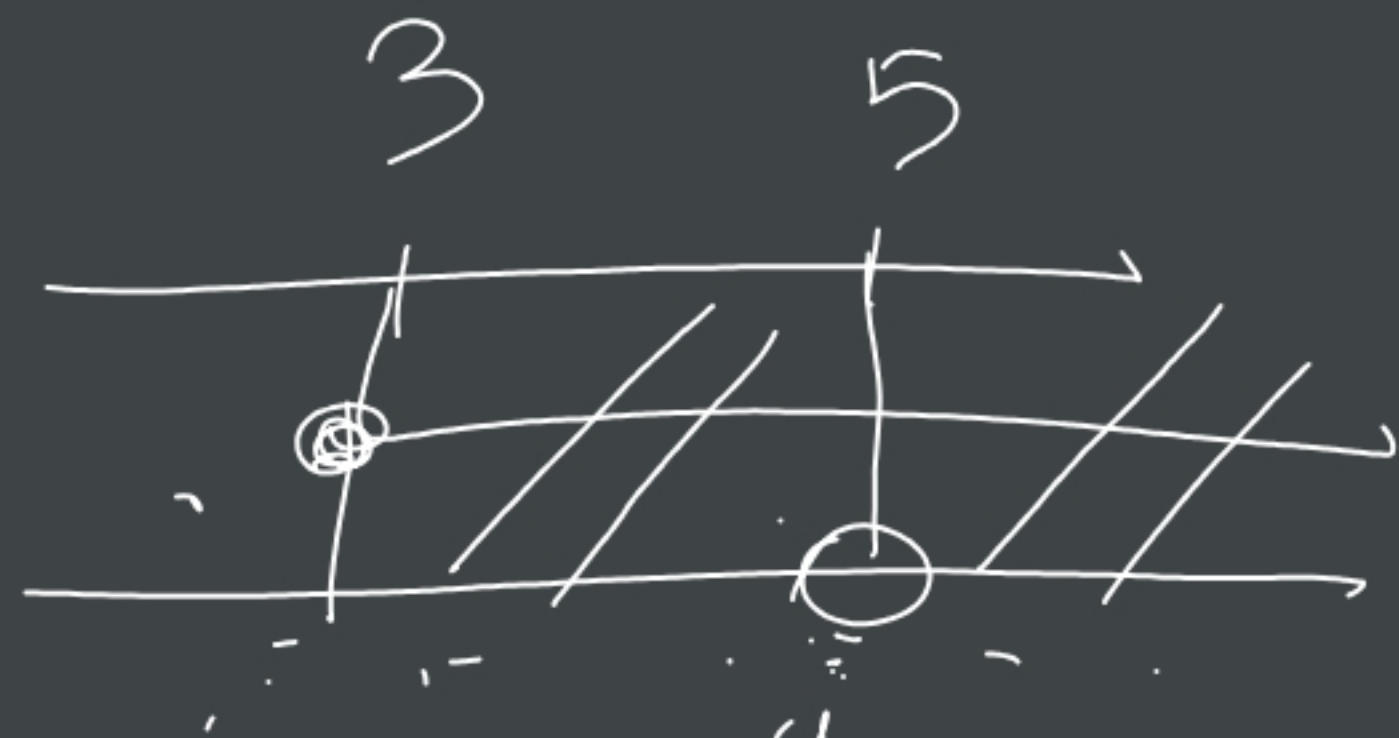
[] di ∞
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$$\forall x \in]-\infty, -2[\cup [4, +\infty[$$

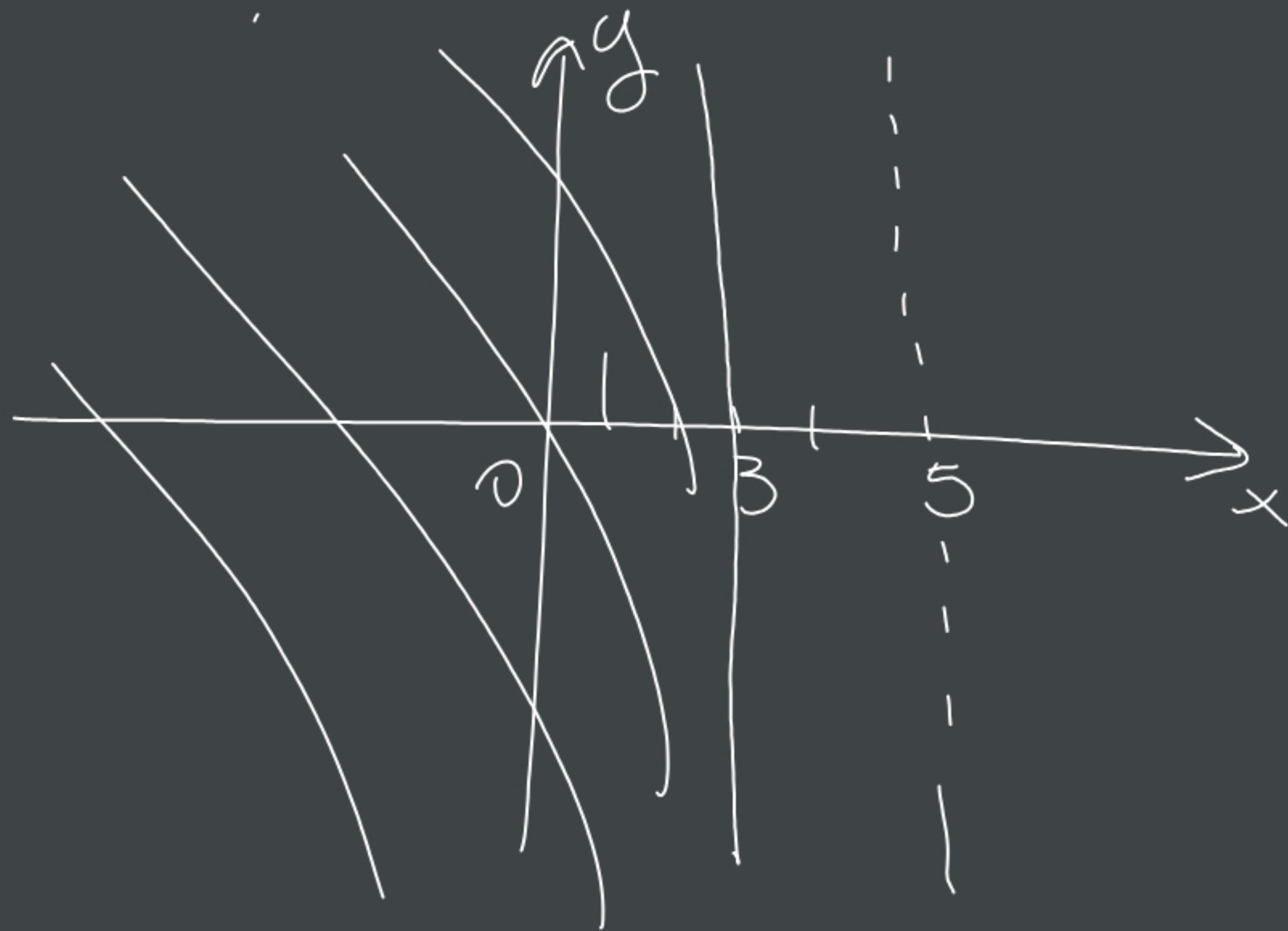


$$y = \frac{\sqrt{x-3}}{x-5}$$

$$\begin{cases} x-3 \geq 0 \\ x-5 \neq 0 \\ x \geq 3 \\ x \neq 5 \end{cases}$$



$$\rightarrow D: \forall x \in [3; 5[\cup]5; +\infty[$$



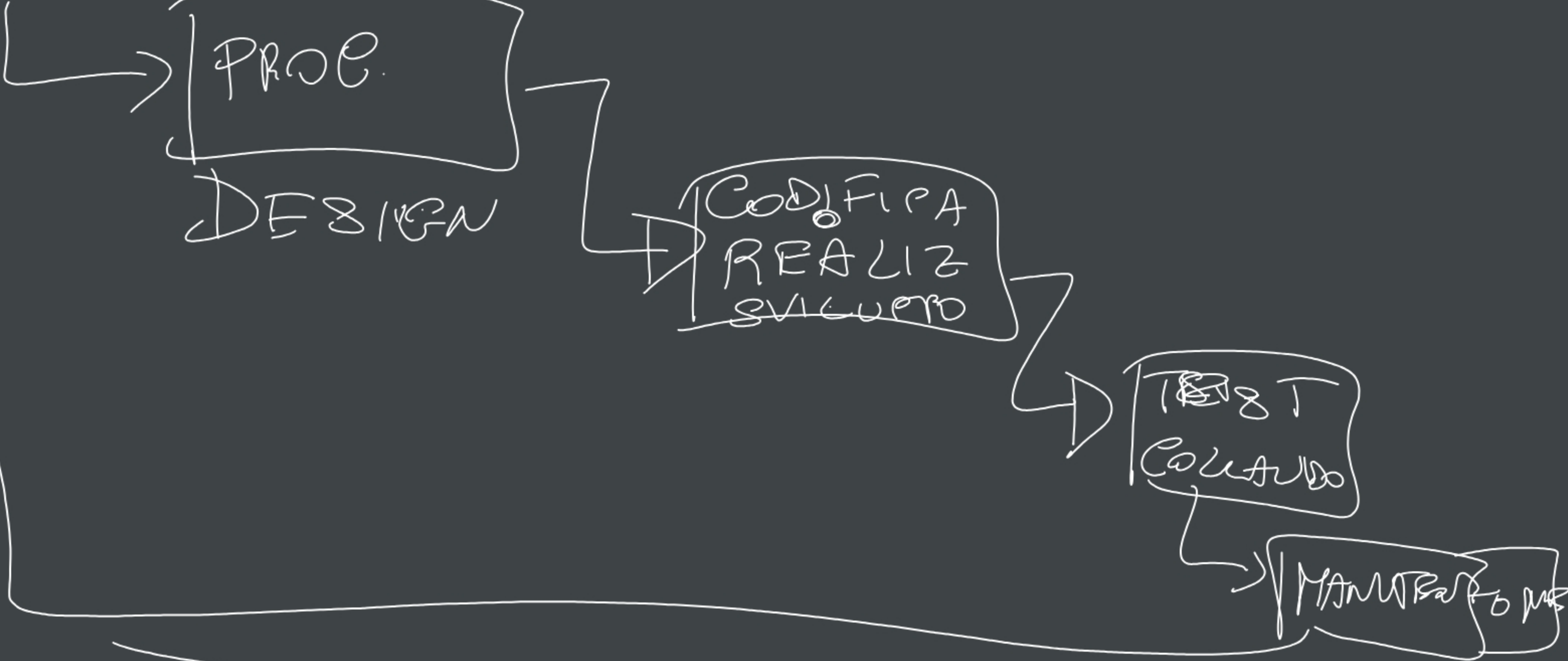
ANALISI
DEI
REQUISITI

PROC.
DESIGN

CODIFICA
REALIZ
SVILUPPO

TEST
COLLAUDO

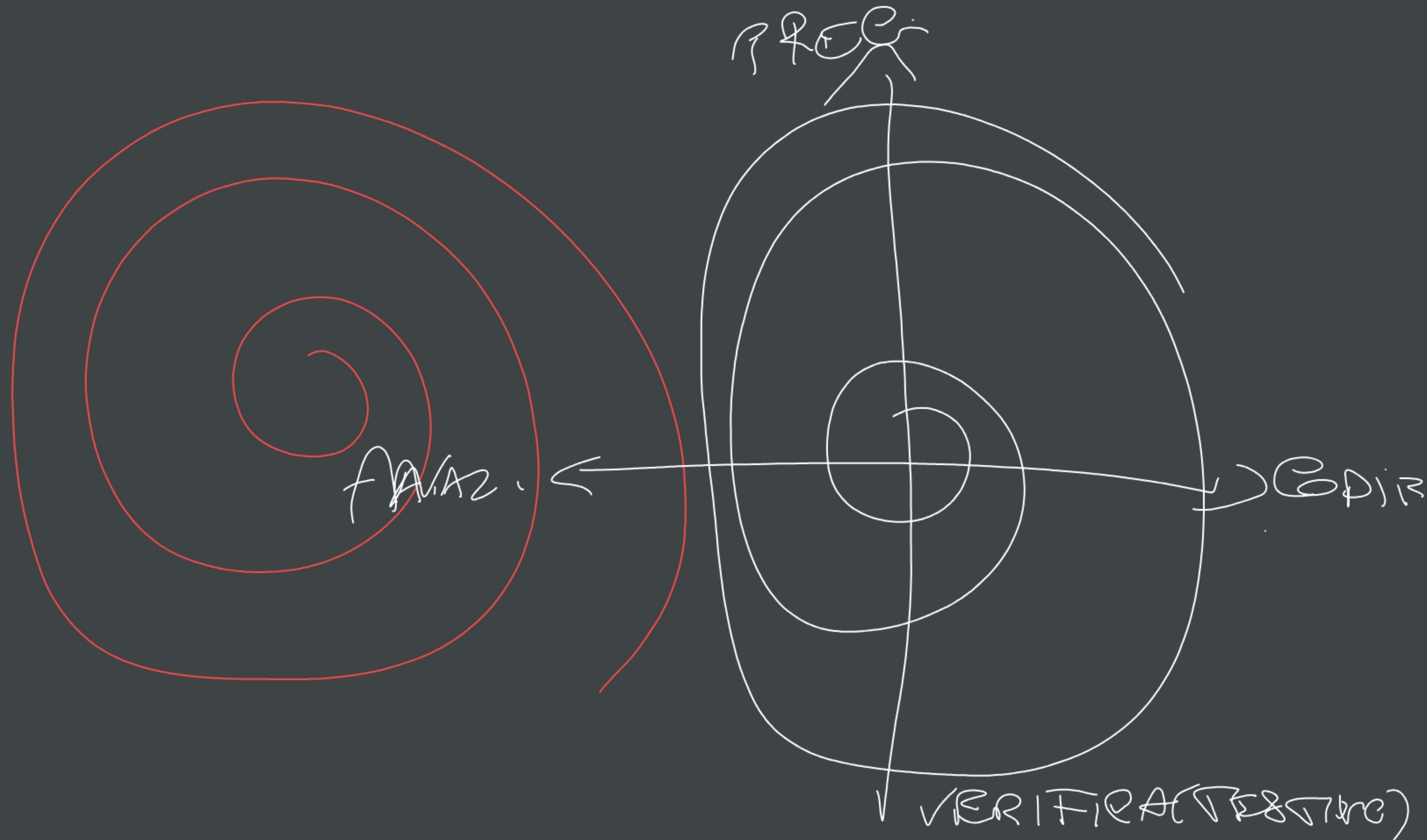
MANUTENZIONE



	INPUT	OUTPUT
ANALISI	QUESTIONNAIRE CLIENTE STUDIO DI	SST (Documento di
PROGETTAZIONE	FASSKATA SST	ARCHITETTURA DESSISTEMA SOFTWARE DESIGN
Sviluppo	*	codice
TESTING	codice	TEST LIST (CHECK LIST)
MANUTENZIONE	codice	Risultato PROBLEMI

↑

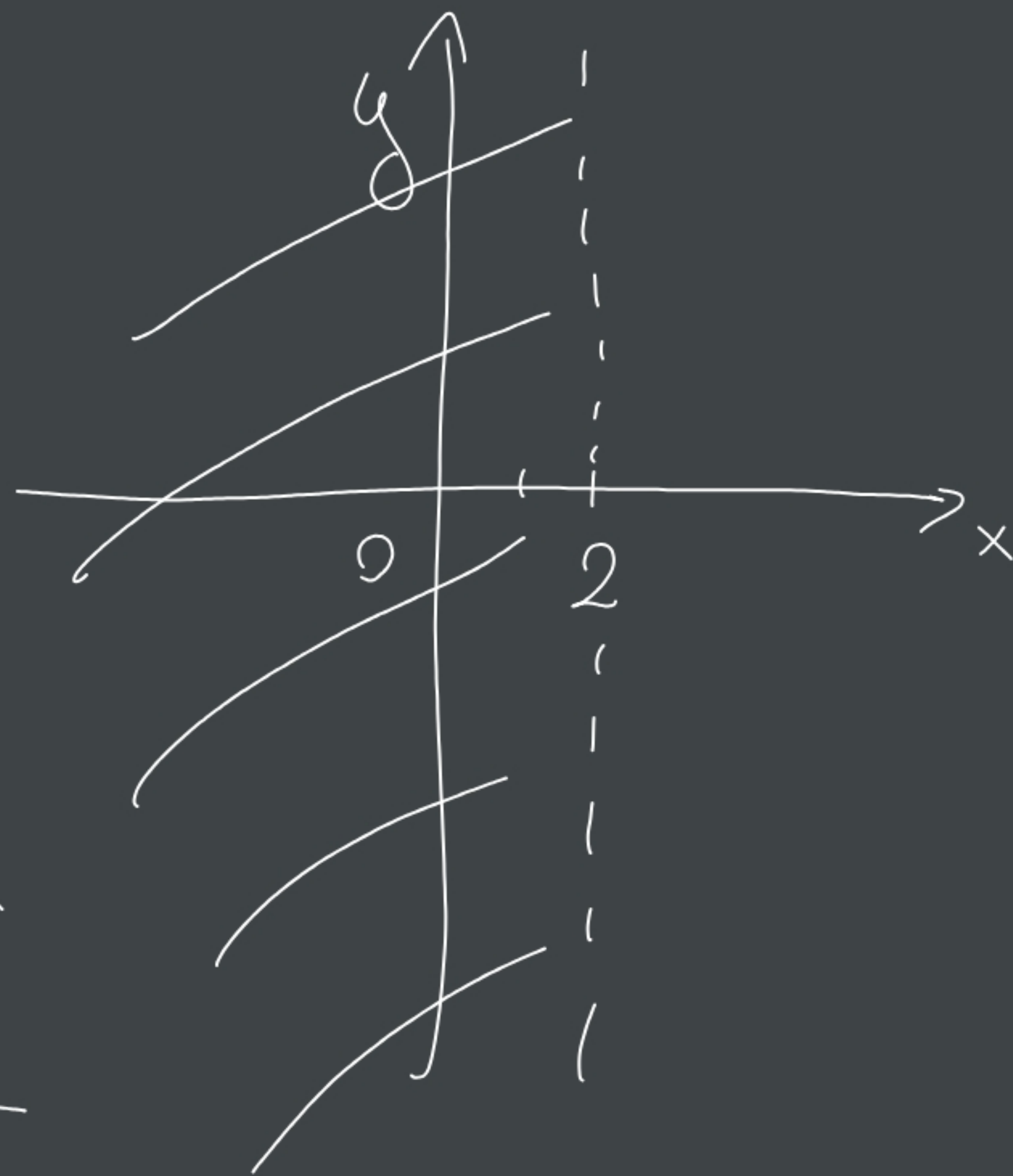
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$$y = \frac{x-3}{\sqrt{x-2}}$$

$$\begin{cases} x-2 \geq 0 \\ x-2 \neq 0 \end{cases} \rightarrow x-2 > 0$$

$$x > 2 \quad \forall x \in]2; +\infty[$$

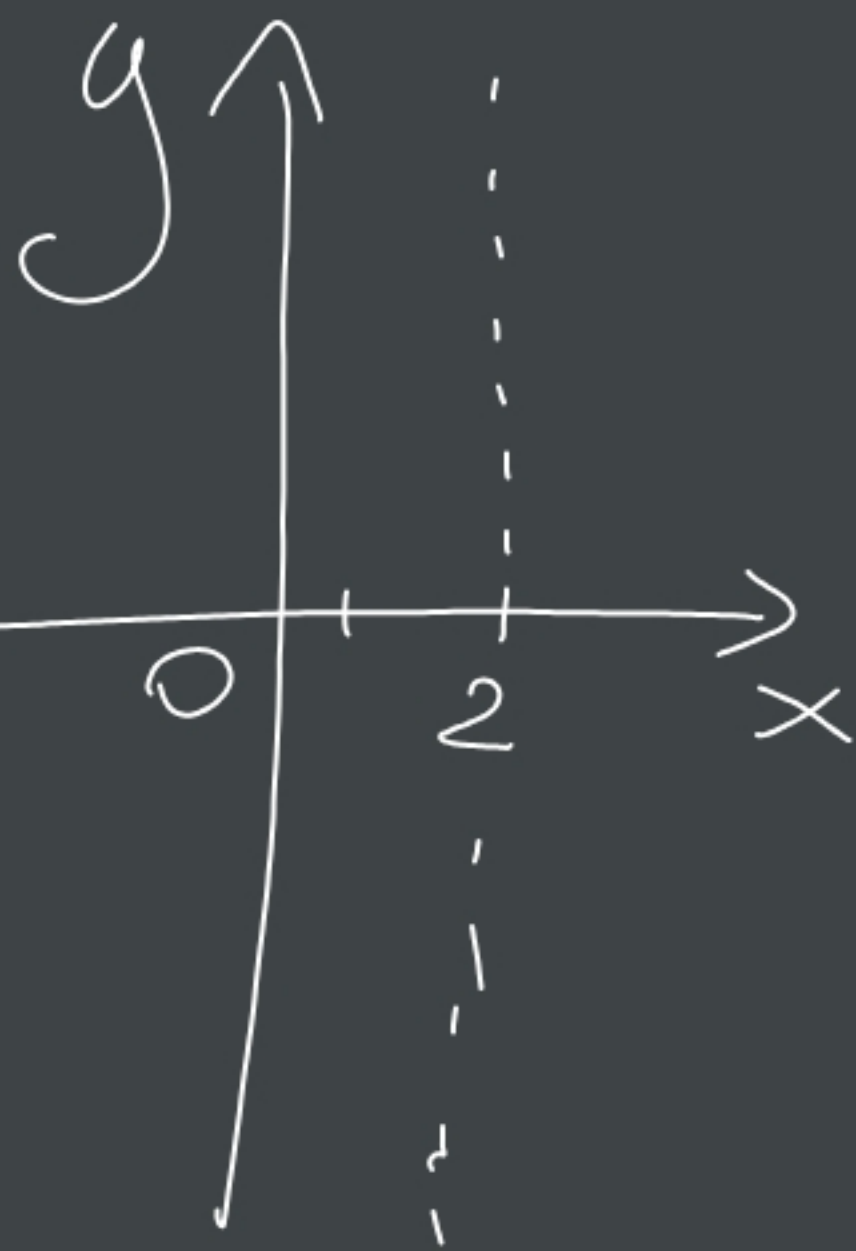


$$y = \frac{\sqrt[3]{x-3}}{\sqrt{x-2}}$$

$$x-2 \neq 0$$

$$x \neq 2$$

$$\forall x \in \mathbb{R} - \{2\}$$



$$y = \frac{\sqrt[3]{x-3}}{x-2}$$

$$x \neq 2$$

$$y = \frac{x-3}{\sqrt[3]{x-2}}$$

$$\sqrt[3]{x-2} \neq 0 \quad x \neq 2$$

LOGARITMICHE

INT

$$y = \log(\underline{x-2})$$

$$\argom > 0$$

$$x-2 > 0$$

$$x > 2$$

$$\forall x \in]2; +\infty[$$

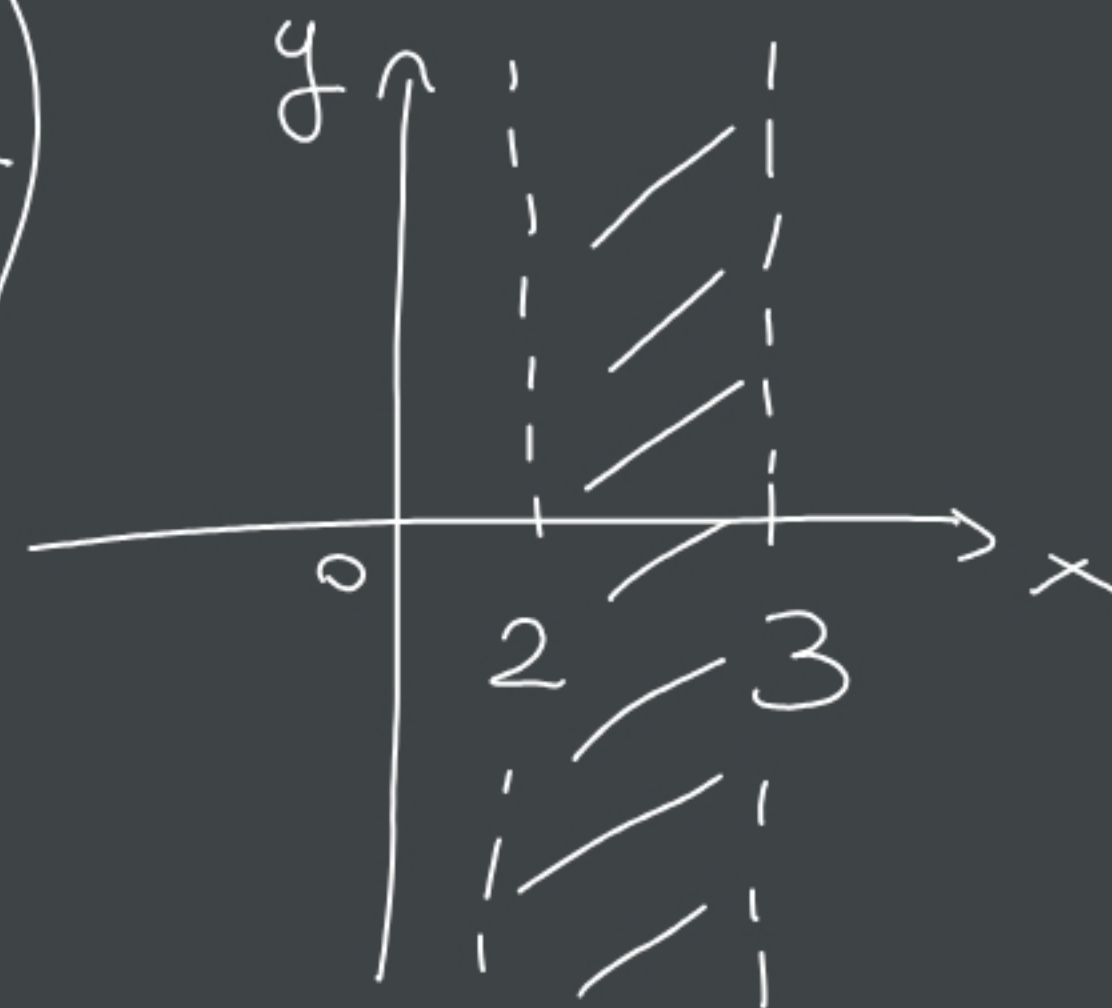


FRATE

$$y = \log\left(\frac{x-2}{x-3}\right)$$

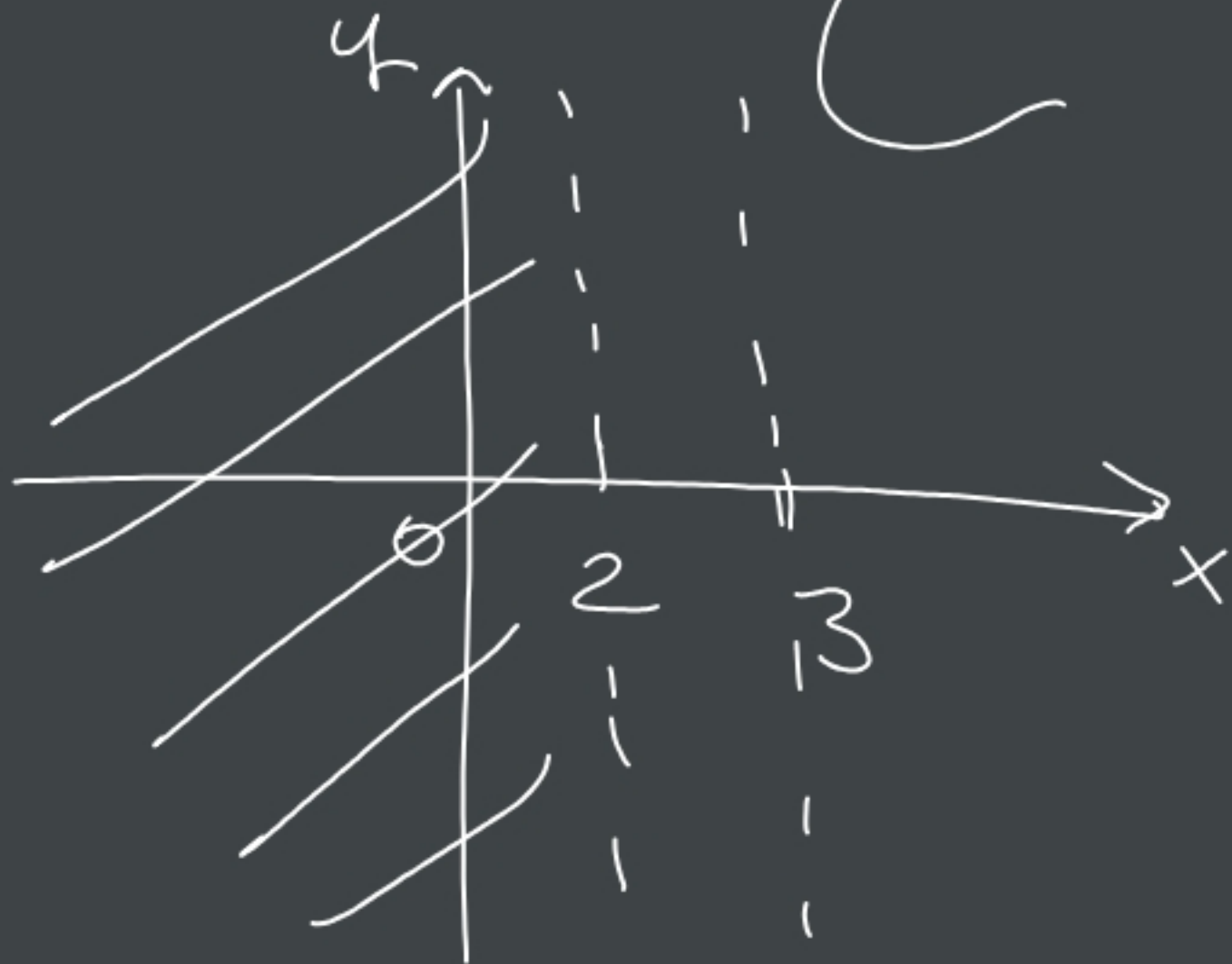
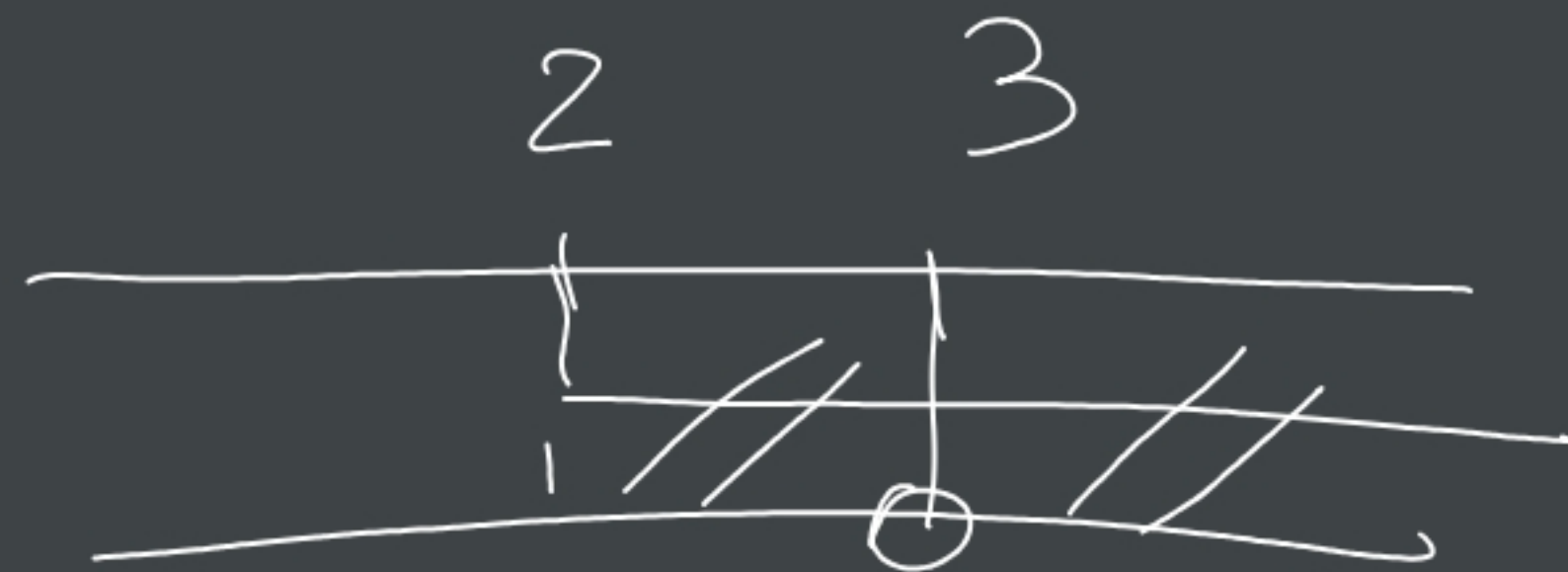
$$\begin{cases} \frac{x-2}{x-3} > 0 \\ \cancel{x-3 \neq 0} \end{cases}$$

$$\forall x \in]-\infty; 2[\cup]3; +\infty[$$



$$y = \frac{\log(x-2)}{x-3}$$

$$\begin{cases} x-2 > 0 \\ x-3 \neq 0 \end{cases} \begin{cases} x > 2 \\ x \neq 3 \end{cases}$$



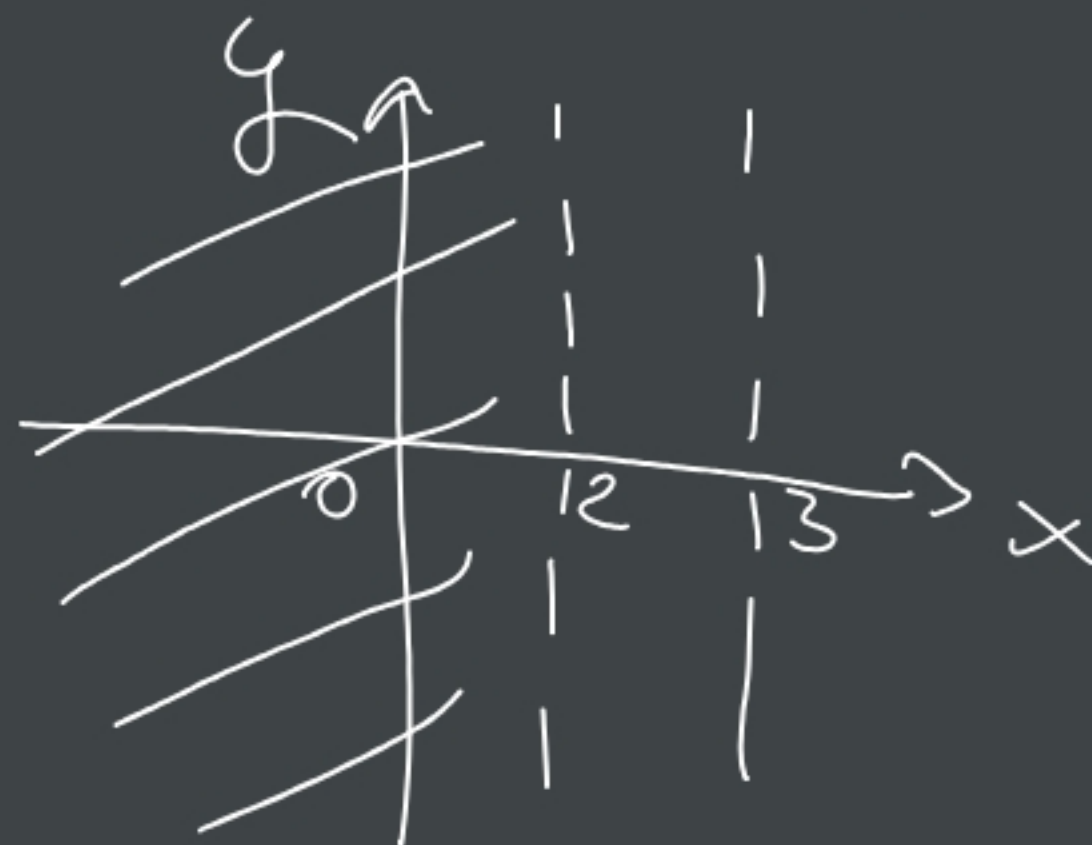
$$\forall x \in]2; 3[\cup]3; +\infty[$$

$$g = \frac{x-3}{\log(x-2)}$$

$$\begin{cases} x-2 > 0 & x > 2 \\ \log(x-2) \neq 0 = \log 1 & x \neq 3 \\ x-2 \neq 1 & x \neq 3 \end{cases}$$



$$\forall x \in]2; 3[\cup]3; +\infty[$$



GONIOMETRICHE

$$y = \cos(x-3)$$

$$y = \cos x$$

$$y = \sin x$$

$$y = \tan x$$

$$y = \cot x$$

Domínio + gráfico

$$1) y = \frac{\sqrt{x^2 - 9}}{x - 5}$$

$$2) y = \frac{x^2 - 3x}{x^2 + 1}$$

$$3) y = \frac{x^2 - 5x}{\sqrt{x - 4}}$$

$$4) y = \sqrt[3]{\frac{x - 2}{x^2 - 1}}$$

$$5) y = \frac{x^2 - 1}{x^2 - 3x + 2}$$

$$6) y = 2^{\frac{x-5}{x-3}}$$

$$7) y = \log\left(\frac{x-2}{x-5}\right)$$

$$8) y = \sqrt{\frac{x-3}{x^2 - 3x - 4}}$$