24, 25, 26 feg. : Amalizis O. Friggere'ngek függwein grafikonja X - +(x) $\Rightarrow x = De'' \times \Rightarrow y = f(x)$ $f: A \Rightarrow B \Rightarrow Qe$ extermasein tare: $D_{f} := \{x \in A \mid f(x) \text{ externs}\} f : D_{f} \rightarrow \mathbb{R}_{f}$ C'rfebbe'salet: -> bor. aldal

(f: A -> B) f([a,b]) = [c,d](Szong. f((a, b)) = [f(a), f(b)] $f([a,e]) = \{y \in B \mid \exists x \in [a,e] : y = f(x) \}$ $\mathcal{R}_{+} = f(\mathcal{D}_{+}) - \{y \in \mathcal{B} \mid \exists x \in \mathcal{P}_{+} : y = f(x)\}$

24. figset, flordratche

(D. DCL, D=?

a,
$$f(x) := \sqrt{\frac{2x^5-1}{x}}$$
 ($x \in D$)

$$D_{q} = \begin{cases} x \in \mathbb{R} & \text{f(x) externs} \end{cases}$$

$$x \neq 0 \quad \frac{2x^3-1}{x} > 0$$

$$f(x) = \sqrt{\frac{2x^2-1}{x}} \quad \text{fff}$$

$$D_{q} = \begin{cases} x \in \mathbb{R} & \text{f(x) externs} \end{cases}$$

$$x \neq 0 \quad \frac{2x^3-1}{x} > 0$$

$$x \neq 0 \quad \frac{2x^$$

24/4,5 HT 25. fejeset, feladat (x-5)(x-1) (x-5)(x-1) (x-5)(x-1) $\mathbb{D}_{p} = \mathbb{D}_{p}$ $\mathcal{R}_{+} = [-4, + \infty)$

$$\mathcal{D}_{\xi} = \begin{cases} y \in \mathbb{R} & \exists x \in \mathbb{D}_{\xi} : y = f(x) \end{cases} =$$

$$= \begin{cases} y \in \mathbb{R} & \exists x \in \mathbb{R} : x^{2} - 6x + 5 = y \end{cases}$$

$$\text{wilyn } y \text{ soesher van megoldeds?}$$

$$\begin{cases} x^{2} - 6x + 5 - y = 0 \\ y^{2} - 6x + 5 - y = 0 \end{cases} = \begin{cases} y + y = 0 \\ y + y = 0 \end{cases}$$

$$x_{12} = \begin{cases} x \in \mathbb{R} & \text{will} = 0 \\ y = 0 \end{cases} = \begin{cases} x^{2} - 6x + 5 = y \\ y = 0 \end{cases}$$

$$x_{12} = \begin{cases} x^{2} - 6x + 5 = y \\ y = 0 \end{cases} = \begin{cases} x^{2} - 6x + 5 = y \\ y = 0 \end{cases}$$

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$$x_{15} =$$

b,
$$f(x) := x^2 - 6x + 5$$
, $D_f := [-1, 6]$

for Sejten: $D_f := [-4, 4]$

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Invertalhato's aig

$$f': B \to A$$
 $f(x) = y \iff f'(y) = x$

Def!

 $D_{f^{-1}} := D_{f}$
 $Q_{f^{-1}} := D_{f}$
 $Q_{f^{-1}} := Q_{f}$

Miker intertalhato Cog friggreing? $\mathcal{I} = [1 + \infty)$ nem invertalhato a investalhato f invertableato (=> fingelettiv Del finjektúr, han $\forall x, t \in D_e: X \neq f = \sum_{i=1}^{n} f(x_i) \neq f(t_i)$ $\forall x t \in D_{\xi}: \quad \xi(x) = \xi(t) \Longrightarrow x = t$

FF1? ha igen,
other f-1=? 1. Velrizongitful, hogy frinjektiv: $f(x) = f(t) \leftarrow f(x) - f(t) = 0$ $f(x) - f(t) = \dots = \frac{5 \cdot (t - x)}{(x - 1)(t - 1)}$ $\left(x, t \in (n_1 + \infty)\right)$ =) $f(x) = f(t) = 5 \cdot \frac{5 \cdot (t-x)}{(x-1)(t-1)} = 0 = x - t$ => finjektiv -> finvertalhato!

$$\left(f(x) - f(t) = \frac{3x+2}{x-n} - \frac{3t+2}{t-n} = \frac{(3x+2)(t-n) - (3t+2)(x-n)}{(x-n)(t-n)} = \frac{3x+2}{(x-n)(t-n)} - \frac{(3x+2)(t-n) - (3t+2)(x-n)}{(x-n)(t-n)} = \frac{3x+2}{(x-n)(t-n)} = \frac{3x+2}{(x-n)(t-n)}$$

$$=\frac{3xt-3x+2x-2-(3xt-3t+2x-2)}{(x-1)(t-1)}=$$

$$= \frac{-5x + 5t}{(x-1)(t-1)} - \frac{5(t-x)}{(x-1)(t-1)}$$

2
$$f^{-1}$$
 migaddsn:
 $2 + 1 = D_{f} = (1 + 10)$
 $2 + 1 = D_{f} = (1 + 10)$
 $3x + 2 = y = 0$
 $3x +$