25 30)
$$\xi(x) = x^2 - 6x + 5$$
 (x \in R) R_{ξ} ?

[Ref. [3x \in D_{\xi} : 3 - \infty] - \in D_{\text{2}} \in R \in 3 \in R \in \frac{1}{3} \in R \in R

8. d)
$$f(x) = \frac{3x+2}{x-\Lambda}$$

invertible to $x \neq t = 3$ $f(x) \neq f(t)$ $f(x) = \frac{3x+2}{x-\Lambda} = \frac{3x+2}{(x-\Lambda)(t-\Lambda)} = \frac{5\cdot(t-\chi)}{(x-\Lambda)(t-\Lambda)} = \frac{5\cdot(t-\chi)}{(x-\Lambda)(t-\chi)} = \frac{5\cdot(t-\chi)}{(x-\Lambda)(t-\chi)} = \frac{5\cdot(t-\chi)}{(x-\Lambda)(t-\chi)} = \frac{5\cdot(t-\chi)}{(x-\Lambda)(t-\chi)} = \frac{5\cdot(t$

$$R_{\ddagger} = \left\{ y \in \mathbb{R} \mid \exists x \in (\Lambda_1 + \infty) : y = \frac{3 \times + 2}{x - \lambda} \right\}$$

$$\eta = \frac{3x+2}{x-1}$$

$$y_x - y = 3x + 2$$

$$x = \frac{\lambda - 3}{\lambda + 2}$$

$$\frac{3-3}{3+5} - \frac{3-3}{3-3} > 0$$

$$\frac{5}{3-3} > 0 \implies 3-3 > 0 = 3 > 3$$

f. \(\frac{1}{\chi} - \gamma \frac{1}{\chi} \)

A = B: f

$$\mathcal{D}_{\ell^{-1}} = R_{\ell} = \left(3 + \infty\right)$$

$$4^{-1}(y) = x = \frac{y+2}{y-3}$$

222. december 7. 15.21

8. by
$$f(x) = x^{2} - 2x + 2 \qquad | x \in (-\infty, 1]$$

$$x, t \in (-\infty, 1] \quad | x \neq t$$

$$0(x) = 0(x) \qquad x^{2} - 2x + 2 - (t^{2} - 2t + 2) = x^{2} - 2x + 2 - (t^{2} -$$

$$f(x) - f(t) = x^{2} - 2 \times t^{2} - (t^{2} - 2t + 2) = x^{2} - t^{2} - 2(x - t) = (x - t) \cdot (x + t - 2)$$

$$+ 0 \qquad x + t \neq 2$$

$$x < 4 \cdot x + 4$$

=> finvertelheto

$$\mathcal{D}_{\xi^{-1}} = \mathbb{R} \ \xi$$

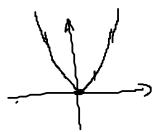
$$\mathbb{R}_{\xi} = \left\{ y \in \mathbb{R} \ | \ x \in (-\infty; 1) : \ y = x^2 - 2x + 2 \right\}$$

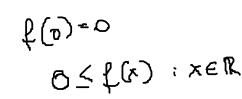
$$x^2 - 2x + 2 - y = 0 \implies x_{1,2} = 1 \pm \sqrt{y - 1} \in \mathbb{R} \implies y - 1 \ge 0$$

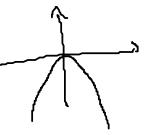
$$y \ge 1$$

1. új szakasz – 4.

26. L(k)=x2

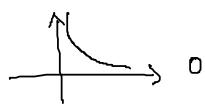






_> (x) < 0 4xeR

$$\frac{1}{x}$$



26.
$$\sqrt{12}$$
 as below $\forall P > 0 \exists R > 0 : x > k : f(x) > P$

$$f(x) = \frac{x^4 - 2x^3 + x^2 + 7}{x^3 + x + 1} \ge \frac{x^4 - 2x^3}{3x^3} \ge \frac{\frac{1}{2}x^4 + x^3(\frac{1}{2}x - 2)}{3x^3} \ge \frac{\frac{1}{2}x^4}{3x^3} = \frac{x}{6}, \ln x > 4$$

$$k \times k \Rightarrow f(x) \geq \frac{x}{6} > P$$

b)
$$k \times K : |f(x)-2| < \varepsilon$$
 $N.R.\mp$