

26 - fejeset 12/a) DE-SXER X3 HX+N+0} Mg., hogy lin $\frac{x^4-2x^3+x^2+7}{x^3+x+n}=+\infty$ $\frac{3}{2}$ $\frac{3}{2}$ Def.: HP>0: JK>0: HX (D) X7K: f(x)>P) deggen 7>0 tetorolligers riogz., eller keresinl K-t. $f(x) = \frac{(4-2x^2+x^2+x^2)}{x^2+x+1} > \frac{1}{3x^2} = \frac{x}{6} \left(\frac{x}{x}>4\right)$ $x^{4} - 2x^{3} + x^{2} + 7 \ge x^{4} - 2x^{3} = \frac{1}{2}x^{4} + \frac{1}{2}x^{4} - 2x^{3} = \frac{1}{2}x^{4} + x^{3}(\frac{1}{2}x - 2)^{3}2^{x}$ ×>9 (X) (4) $X^{2}+X+1$ $3x^{2}$ (x) 1

elig: $\frac{X}{6} > P \rightarrow [X > G]$

 $=> K:= max {4,6 P} jo' va'lanzhon, ngaz a dy.$

$$= \frac{|-x^{2}-4x+13|}{|x^{3}+2x-5|} = \frac{|x^{2}+4x-13|}{|x^{3}+2x-5|} = \frac{|x^{2}+4x-13|}{|x^{3}+2x-13|} = \frac{|x^{3}+4x-13|}{|x^{3}+2x-13|} = \frac{|x^{3}+4x-13|}{|x^{3}+2x-13|} = \frac{|x^{3}+4x-13|}{|x^{3}+2x-13|} = \frac{|x^{$$

ell'z: $\frac{10}{x}$ < ε

 $K := \max \{(3), 10, \frac{10}{\epsilon}\}$

12/c, Mg, how: $\frac{x^3 + x^2 - 2x - 3}{9 - 4x^2} = -\infty$ ast mutatjur meg, hogy lin-f(x) - + ». 4700: JK20: HXED, X0K: -f(X)>P. Liggen P>0 tetss., vögz., et her keresünk K-t. $-f(x) = \frac{x^3 + x^2 - 2x - 3}{4x^2 - 9} > \frac{\frac{1}{2}x^3}{4x^2} = \frac{1}{8} \times (x > \sqrt{10})$ $x^{3}+x^{2}-2x-3>x^{3}-2x-3=x^{3}-(2x+3)>x^{3}-5x=$ $= (2x^{3} + 2x^{3} - 5x = 2x^{3} + x(2x^{2} - 5) > 2x^{3} \times 2x$

ell'g:
$$\frac{x}{8} > P$$
 $\longrightarrow (x > 8P)$

 $-RL:=max\{\sqrt{10},8P\}$

(taraly jarrito 2h)

$$f: R \rightarrow R$$
, $f(x):=x^2 - 10x + 9$ $(x \in [6, +\infty))$ $f'=?$

(1) $f: x_1 \neq E$ $D_E = [6, +\infty)$
 $f(x) - f(t) = x^2 - 10x + 9 - (t^2 - 10t + 9) =$
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 $f(x) - f(x) = x^2$

2)
$$f^{-1}$$
 migadism:
• $\Re_{\xi^{-1}} = \Im_{\xi} = [6, +\infty)$
• $\Im_{\xi^{-1}} = \Im_{\xi} = [9, +\infty]$
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$$x_{1,2} = 5 \pm \sqrt{16} + y$$

(1) $x_{1,2} \in \mathbb{R} = 2$

(2) $x_{1} > 6$ vary $x_{2} > 6$

(5) $\sqrt{16 + y} > 6$ vary $\sqrt{5 + \sqrt{16 + y}} > 6$

(6) $\sqrt{16 + y} > 7$

(7) $\sqrt{16 + y} > 7$

(8) $\sqrt{16 + y} > 7$

(9) $\sqrt{16 + y} > 7$

(14) $\sqrt{16 + y} > 7$

(15) $\sqrt{16 + y} > 7$

(16) $\sqrt{16 + y} > 7$

(17) $\sqrt{16 + y} > 7$

(18) $\sqrt{16 + y} > 7$

(19) $\sqrt{16 + y} > 7$



