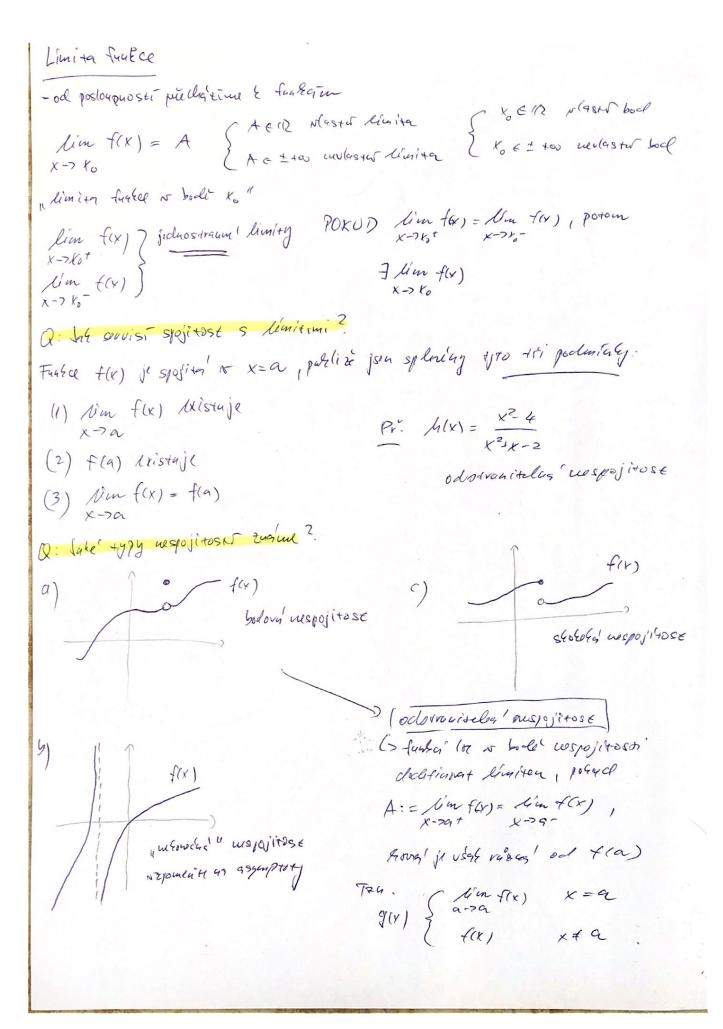
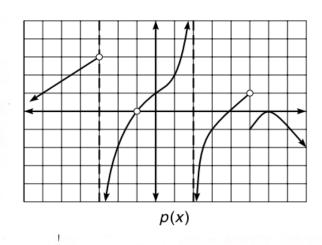
Cricent 5 (limita funtce) Oparovaul: 18.10,22 Figna 1: rythai wjugssi vocaina Pr.1. lin 3.54-24 = Finna 2: Notari exp o mjugistim 25865da Finta 3: vozsiv zagunikem opadys/m = $\lim_{n\to +\infty} \frac{5^n \left[3 - \left(\frac{2}{5}\right)^n\right]}{5^n \left[\left(\frac{1}{2}\right)^n + \frac{1}{5^n}\right]} =$ $= \lim_{n \to +\infty} \frac{3 - \left(\frac{2}{5}\right)^n}{n!} = \lim_{n \to +\infty} \frac{3 - \left(\frac{2}{5}\right)$ Mat Klo Pr.2. $\lim_{N\to 7+\infty} \frac{\binom{3}{2} + \binom{7}{4}}{\binom{7}{2} + \binom{9}{4}} = n + \infty$ $= n + \infty$ $= \lim_{n \to +\infty} \frac{1 + \left(\frac{2}{3}\right)^{n} \cdot \frac{7}{4}}{-\frac{9}{4} + \left(\frac{2}{3}\right)^{n} \cdot \frac{3}{2}}$ $\left(\frac{3}{2}\right)^{4}\left(\frac{3}{2}\right)\left(\frac{4}{3}\right)^{4}=\left(\frac{3}{2}\right)^{4}\left(\frac{3}{2}\right)\left(\frac{2}{3}\right)^{24}$ = (3) 2 a2-62=(9-5)(9+5) Pr. 3 lim In (Ju+2 - Jn) (73) lim Jn (Ju+2'- J4). Ju+2'+ Jn = lin In .[(4+2) - W] = lin 2/h => +00 " +rich ponsite (FA) (1) lim In 2 VOAL lim 2 = 2 = 1

(9:15) Vin Sh?-4-1 - Su+1 = 3) $= \lim_{n \to +\infty} \frac{n^2 - 2n - 2}{\sqrt{n^2 - n^2 + \sqrt{n+1}}} = \lim_{n \to +\infty} \frac{n^2 - 2n - 2}{\sqrt{n^2 - n^2 + \sqrt{n+1}}} = \lim_{n \to +\infty} \frac{n^2 - 2n - 2}{\sqrt{n^2 - n^2 + \sqrt{n+1}}} = \lim_{n \to +\infty} \frac{n^2 - 2n - 2}{\sqrt{n^2 - n^2 + \sqrt{n+1}}} = \lim_{n \to +\infty} \frac{n^2 - 2n - 2}{\sqrt{n^2 - n^2 + \sqrt{n+1}}} = \lim_{n \to +\infty} \frac{n^2 - 2n - 2}{\sqrt{n^2 - n^2 + \sqrt{n+1}}} = \lim_{n \to +\infty} \frac{n^2 - 2n - 2}{\sqrt{n^2 - n^2 + \sqrt{n+1}}} = \lim_{n \to +\infty} \frac{n^2 - 2n - 2}{\sqrt{n^2 - n^2 + \sqrt{n+1}}} = \lim_{n \to +\infty} \frac{n^2 - 2n - 2}{\sqrt{n^2 - n^2 + \sqrt{n+1}}} = \lim_{n \to +\infty} \frac{n^2 - 2n - 2}{\sqrt{n^2 - n^2 + \sqrt{n+1}}} = \lim_{n \to +\infty} \frac{n^2 - 2n - 2}{\sqrt{n^2 - n^2 + \sqrt{n+1}}} = \lim_{n \to +\infty} \frac{n^2 - 2n - 2}{\sqrt{n^2 - n^2 + \sqrt{n+1}}} = \lim_{n \to +\infty} \frac{n^2 - 2n - 2}{\sqrt{n^2 - n^2 + \sqrt{n+1}}} = \lim_{n \to +\infty} \frac{n^2 - 2n - 2}{\sqrt{n^2 - n^2 + \sqrt{n+1}}} = \lim_{n \to +\infty} \frac{n^2 - 2n - 2}{\sqrt{n^2 - n^2 + \sqrt{n+1}}} = \lim_{n \to +\infty} \frac{n^2 - 2n - 2}{\sqrt{n^2 - n^2 + \sqrt{n+1}}} = \lim_{n \to +\infty} \frac{n^2 - 2n - 2}{\sqrt{n^2 - n^2 + \sqrt{n+1}}} = \lim_{n \to +\infty} \frac{n^2 - 2n - 2}{\sqrt{n^2 - n^2 + \sqrt{n+1}}} = \lim_{n \to +\infty} \frac{n^2 - 2n - 2}{\sqrt{n^2 - 2n^2 + \sqrt{n+1}}} = \lim_{n \to +\infty} \frac{n^2 - 2n - 2}{\sqrt{n+1}} = \lim_{n \to +\infty} \frac{n^2$ $= \sqrt{h^2(1 - \frac{2}{h} - \frac{1}{h^2})} = \sqrt{h^2(\frac{1}{h} + \frac{1}{h^2})} \quad 0 \quad 0$ VIAC Nim h. Nim $1 - \frac{2}{a} - \frac{2}{42}$ = $+\infty$ = u-7+00 u-7+00 $\sqrt{1-\frac{2}{a}-\frac{1}{a^2}} + \sqrt{\frac{1}{a}+\frac{1}{a^2}}$ = $+\infty$ Pr. 5 lim Suran - Sur-1 (F3) lim Suran - S $= \lim_{n \to +\infty} (a^{2} + n + 1) - (a^{2} - 1) = \lim_{n \to +\infty} (a^{2} + n + 1)$ $= \lim_{N \to 100} \frac{u+2}{\sqrt{2n-12}(u^2+n+1)} + \sqrt{(2n-12)(n^2-1)} \frac{u-7780}{u-7780} \frac{u}{\sqrt{3n}} \sqrt{(2-\frac{10}{n^2-\frac{12}{n^2}})^{1/2}}$ $= \sqrt{2m^3-10q^2-10q-12} = \sqrt{2n^3-12u^2-2n+12} \frac{1}{\sqrt{2n^2-2n+12}} + \left(2-\frac{12}{n^2-\frac{2}{n^2}} + \frac{2}{n^2}\right)^{\frac{1}{2}}$ $Voll \lim_{N\to 100} \frac{1}{\sqrt{100}} \lim_{N\to 100} \frac{1+\frac{2}{n}-20}{\sqrt{100}} = 0 \quad \text{winning},$ $Voll \lim_{N\to 100} \frac{1}{\sqrt{100}} \lim_{N\to 100} \frac{1}{\sqrt{100}} \frac{1}{\sqrt{100}} = 0 \quad \text{winning},$ $Voll \lim_{N\to 100} \frac{1}{\sqrt{100}} \lim_{N\to 100} \frac{1}{\sqrt{100}} \frac{1}{\sqrt{100}} = 0 \quad \text{winning},$ $Voll \lim_{N\to 100} \frac{1}{\sqrt{100}} \lim_{N\to 100} \frac{1}{\sqrt{100}} \frac{1}{\sqrt{100}} = 0 \quad \text{winning},$ $Voll \lim_{N\to 100} \frac{1}{\sqrt{100}} \lim_{N\to 100} \frac{1}{\sqrt{100}} \frac{1}{\sqrt{100}} = 0 \quad \text{winning},$ $Voll \lim_{N\to 100} \frac{1}{\sqrt{100}} \frac{1}{\sqrt{100}} = 0 \quad \text{winning},$ $Voll \lim_{N\to 100} \frac{1}{\sqrt{100}} \frac{1}{\sqrt{100}} = 0 \quad \text{winning},$ $Voll \lim_{N\to 100} \frac{1}{\sqrt{100}} \frac{1}{\sqrt{100}} = 0 \quad \text{winning},$ $Voll \lim_{N\to 100} \frac{1}{\sqrt{100}} = 0 \quad \text{winning},$ $Voll \lim_{N$ (Exoustory limita)





6. Now
$$p(x) = 0$$
 (funted or bode -1 was crudefilmans),

order sim = sim = 0)

 $x \rightarrow -1$
 $x \rightarrow -1$
 $x \rightarrow -1$

$$Pr. ((r) = \frac{1}{x-4})$$

$$(x+3):(x-4)=1+\frac{7}{x-4}$$

- $(x-4)$
 $S=[4,4]$

$$\lim_{X\to 100} \frac{X+3}{X-4} = \lim_{X\to 7400} \frac{X(1+\frac{3}{1}X)}{X(1-\frac{4}{1}X)} = 1$$

$$\lim_{X\to 100} \frac{X+3}{X-9} = \lim_{X\to 7400} \frac{X(1-\frac{4}{1}X)}{X(1-\frac{4}{1}X)} = 1$$

$$\lim_{X\to 7-00} \frac{X+3}{X-4} = \lim_{X\to 720} \frac{X(1+\frac{3}{1}X)}{X(1-\frac{4}{1}X)} = 1$$

$$\frac{fi}{R^2 + 1} = \frac{5x^2 - x}{R^2 + 4}$$

$$\frac{fi}{R^2 + 1} = \frac{5x^2 - x}{R^2 + 1} = \frac{6x}{R^2 + 1} = \frac{5x^2 - x}{R^2 + 1} = \frac{2x^2 - x}{R^2$$