$$|| \frac{1}{2} || \frac{1}{2$$

(A) (TI) (STINA Den. Nelso je lin an = LCR. Uznino E=1. Tabla postoji voet Hd lan-LICA for sive N7 No. Uznino nox 2 a1, a2, -, ano-1, L+13 = M nin dansazi - janoi, L-13 = m Za Ken < no vydi m = an = 4 po definiciji Zu n≥no njdi |an-L|<1. =)-1 < a\_n-1 < 1 m < L-1can< L+1 < -M U sulear straigh mEanEM, HNEW, Rage (an) omeden. (T2) LAZ antbn= O Hue M Kontraprinjer an= n bn=-n home lin (anth) = 0 No vi lu au vi lu bu ne postije. No with an with  $\frac{1}{3m}$  Ne sheden!. If  $\frac{3m}{3m} \cdot m^{-1} = \lim_{n \to \infty} \left( \frac{3m+n}{3m} \right) = \lim$ 

4 f(x) = \x sin(\frac{1}{x}), x \neq 0 (a) Da hi of holo replicato Vinare vijediti lin z(x) = z(x), , x-1x. of je regulante u svaloj boli velkoj jer je x sint) sachorfeno od clentonisk Juliaja : ine Lovern 12/403. Da bi o Inla replenta a Vo=0 moro ujeleti lm f(x) = f(0)=0 bur g(x) - lin x m(x) = mposloji, a < 0 2a 230 0= |x sin(x) | = |x2 | | lum x-10 tu o sendrich ye -> 0

ali ye su ( ye ) = - ye ( -> aco The = The Kell 1 ye -> 0 Za xell/doj :  $f'(x) = \left(x^{\alpha} \sin\left(\frac{1}{x}\right)\right) = \alpha \cdot x^{\alpha-1} \cdot \sin\left(\frac{1}{x}\right) + x^{\alpha} \cdot \cos\left(\frac{1}{x}\right) \cdot \left(\frac{1}{x^{2}}\right)$  $\mathcal{L}'(0) = \lim_{h \to 0} \frac{f(h) - f(0)}{h} = \lim_{h \to 0} \frac{h^{\alpha} \sin(\frac{1}{h}) - 0}{h} = \lim_{h \to 0} \frac{a^{-1}}{h} \cdot \sin(\frac{1}{h}) = \lim_{h \to 0} \frac{a^{-1}}{h} \cdot \sin$ Fa a >1 fje defengabelen u svalnoj bolin xell has i gore
i vojedi f'(x) = { ax<sup>a-1</sup>. sin(x) + x<sup>a</sup> cos(x)(-x2), x ≠0 20 a≤1 of mye def. a o (pa ni na oidavom 12)

15 
$$f(x) = \frac{x}{3(x-1)}$$

Use Aboline asymptote.

Lim  $f(x) = \frac{1}{0} = +\infty$ 

Lim  $f(x) = \frac{1}{0} = -\infty$ 

Lim  $f(x) = -\frac{1}{0} = -\infty$ 

Lim  $f(x) = -\infty$ 

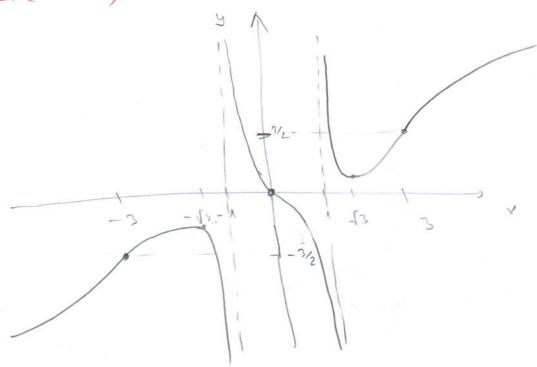
Lim  $f(x) = -\infty$ 

Lim  $f(x) = -\infty$ 

Lim  $f(x) = -\infty$ 

Lim  $f(x$ 

 5 (rustowale)



$$\frac{F(x) = \int_{0}^{x} g(t) dt}{F(x) = \lim_{x \to \infty} \frac{F(x) - F(x)}{x} = \lim_{x \to \infty} \frac{1}{x} \left[ \int_{0}^{x} f(t) dt - \int_{0}^{x} f(t) dt \right] = \lim_{x \to \infty} \frac{1}{x} \int_{0}^{x} f(t) dt$$

Potus svednjoj ujednosti on chejale Ice(x,xth) ili (x+h,x) id

(b) \( \frac{1}{2} \left(x) = \int \frac{1}{2} \frac{1}{2} \left(x) \right) \( \frac{1}{2} \left(x) \right) \)  $\mp(x) = \int_{-\infty}^{x} \xi(t) dt$ 

=) 
$$\frac{1}{\sqrt{2}} (x) = F(x^2) - F(0)$$
  $\frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \frac{1}{\sqrt$ 

 $\vec{\Phi}(x) = F(x^2) \cdot 2x - 0 = f(x^2) \cdot 2x$ 

$$\overline{Q}(x) = F(x^2) \cdot 2x - 0 = \underline{f(x^2) \cdot 2x}$$

$$\frac{1}{7} (a) \int_{A}^{3} \frac{dx}{(17x_{1})(17x_{1})} = \begin{cases} x = t^{2} \\ x = t^{2} \\ 4x = 2tdt \end{cases} = \begin{cases} \frac{2}{(t+1)(t+2)} = \frac{1}{(t+1)(t+2)} \\ \frac{2}{(t+1)(t+2)} = \frac{1}{(t+1)(t+2)} \end{cases} = \begin{cases} \frac{2}{(t+1)(t+2)} + \frac{1}{(t+1)(t+2)} \\ \frac{2}{(t+1)(t+2)} = \frac{1}{(t+1)(t+2)} \end{cases} = \begin{cases} \frac{2}{(t+1)(t+2)} + \frac{1}{(t+1)(t+2)} \\ \frac{2}{(t+1)(t+2)} = \frac{1}{(t+1)(t+2)} \end{cases} = \begin{cases} \frac{2}{(t+1)(t+2)} + \frac{1}{(t+1)(t+2)} \\ \frac{2}{(t+1)(t+2)} = \frac{1}{(t+1)(t+2)} \end{cases} = \begin{cases} \frac{2}{(t+1)(t+2)} + \frac{1}{(t+1)(t+2)} \\ \frac{2}{(t+1)(t+2)} = \frac{1}{(t+1)(t+2)} \end{cases} = \begin{cases} \frac{2}{(t+1)(t+2)} + \frac{1}{(t+1)(t+2)} \\ \frac{2}{(t+1)(t+2)} = \frac{1}{(t+1)(t+2)} \end{cases} = \begin{cases} \frac{2}{(t+1)(t+2)} + \frac{1}{(t+1)(t+2)} \\ \frac{2}{(t+1)(t+2)} = \frac{1}{(t+1)(t+2)} \end{cases} = \begin{cases} \frac{2}{(t+1)(t+2)} + \frac{1}{(t+1)(t+2)} \\ \frac{2}{(t+1)(t+2)} = \frac{1}{(t+1)(t+2)} \end{cases} = \begin{cases} \frac{2}{(t+1)(t+2)} + \frac{1}{(t+1)(t+2)} \\ \frac{2}{(t+1)(t+2)} = \frac{1}{(t+1)(t+2)} \end{cases} = \begin{cases} \frac{2}{(t+1)(t+2)} + \frac{1}{(t+1)(t+2)} \\ \frac{2}{(t+1)(t+2)} = \frac{1}{(t+1)(t+2)} \end{cases} = \begin{cases} \frac{2}{(t+1)(t+2)} + \frac{1}{(t+1)(t+2)} \\ \frac{2}{(t+1)(t+2)} = \frac{1}{(t+1)(t+2)} \end{cases} = \begin{cases} \frac{2}{(t+1)(t+2)} + \frac{1}{(t+1)(t+2)} \\ \frac{2}{(t+1)(t+2)} = \frac{1}{(t+1)(t+2)} \end{cases} = \begin{cases} \frac{2}{(t+1)(t+2)} + \frac{1}{(t+1)(t+2)} \\ \frac{2}{(t+1)(t+2)} = \frac{1}{(t+1)(t+2)} \end{cases} = \begin{cases} \frac{2}{(t+1)(t+2)} + \frac{1}{(t+1)(t+2)} \\ \frac{2}{(t+1)(t+2)} = \frac{1}{(t+1)(t+2)} \end{cases} = \begin{cases} \frac{2}{(t+1)(t+2)} + \frac{1}{(t+1)(t+2)} \\ \frac{2}{(t+1)(t+2)} = \frac{1}{(t+1)(t+2)} \end{cases} = \begin{cases} \frac{2}{(t+1)(t+2)} + \frac{1}{(t+1)(t+2)} \\ \frac{2}{(t+1)(t+2)} = \frac{1}{(t+1)(t+2)} \end{cases} = \begin{cases} \frac{2}{(t+1)(t+2)} + \frac{1}{(t+1)(t+2)} \\ \frac{2}{(t+1)(t+2)} = \frac{1}{(t+1)(t+2)} \end{cases} = \begin{cases} \frac{2}{(t+1)(t+2)} + \frac{1}{(t+1)(t+2)} \\ \frac{2}{(t+1)(t+2)} = \frac{1}{(t+1)(t+2)} \end{cases} = \begin{cases} \frac{2}{(t+1)(t+2)} + \frac{2}{(t+1)(t+2)} \\ \frac{2}{(t+1)(t+2)} = \frac{1}{(t+1)(t+2)} \end{cases} = \begin{cases} \frac{2}{(t+1)(t+2)} + \frac{2}{(t+1)(t+2)} \\ \frac{2}{(t+1)(t+2)} = \frac{2}{(t+1)(t+2)} \end{cases} = \begin{cases} \frac{2}{(t+1)(t+2)} + \frac{2}{(t+1)(t+2)} \\ \frac{2}{(t+1)(t+2)} = \frac{2}{(t+1)(t+2)} \end{cases} = \begin{cases} \frac{2}{(t+1)(t+2)} + \frac{2}{(t+1)(t+2)} \\ \frac{2}{(t+1)(t+2)} = \frac{2}{(t+1)(t+2)} \end{cases} = \begin{cases} \frac{2}{(t+1)(t+2)} + \frac{2}{(t+1)(t+2)} \\ \frac{2}{(t+1)(t+2)} = \frac{2}{(t+1)(t+2)} \end{cases} = \begin{cases} \frac{2}{(t+1)(t+2)} + \frac{2}{(t+1)(t+2)} \\ \frac{2}{(t+1)(t+2)} = \frac{2}{(t+1)(t+2)} \end{cases} = \begin{cases} \frac{2}{(t+1)(t+2)} + \frac{2}{(t+2)(t$$

| S | a) | Volk | 
$$\int_{0}^{a+2} y^{(a)} | \mathbb{T} dx = \mathbb{T} \int_{0}^{a+2} x e^{x} dx = \left[ \frac{u = x}{du = dx} \frac{dv = e^{x} dx}{v = -e^{x}} \right]$$

$$= \mathbb{T} \left[ \left( -x e^{x} \right) \Big|_{0}^{a+2} + \int_{0}^{a+2} e^{-x} dx \right] = \mathbb{T} \left[ \left( -a - (az) e^{(az)} + (-e^{x}) e^{(az)} + (-e^{x}) e^{(az)} \right]$$

$$= \mathbb{T} \left[ \left( -x e^{x} \right) \Big|_{0}^{a+2} + \int_{0}^{a+2} e^{-x} dx \right] = \mathbb{T} \left[ \left( -x e^{(az)} \right) e^{(az)} + \left( -e^{(az)} \right) e^{(az)} + \left( -e^{(az)} \right) e^{(az)} \right]$$

$$= \mathbb{T} \left[ e^{a} \left[ -x e^{(az)} + A - \frac{1}{e^{2}} \right] = \mathbb{T} \left[ -x e^{(az)} \right] = \mathbb{T} \left[ -x e^{(az)} \right] = \mathbb{T} \left[ -x e^{(az)} \right]$$

$$= \mathbb{T} \left[ -x e^{(az)} + A - \frac{1}{e^{2}} \right] = \mathbb{T} \left[ -x e^{(az)} \right] + \mathbb{T} \left[ -x e^{(az)} \right] = \mathbb{T} \left[ -x e^{(az)} \right]$$

$$= \mathbb{T} \left[ -x e^{(az)} + A - \frac{1}{e^{2}} \right] = \mathbb{T} \left[ -x e^{(az)} \right] = \mathbb{T} \left[ -x e^{(az)} \right] = \mathbb{T} \left[ -x e^{(az)} \right]$$

$$= \mathbb{T} \left[ -x e^{(az)} + A - \frac{1}{e^{2}} \right] = \mathbb{T} \left[ -x e^{(az)} \right] = \mathbb{T} \left[ -x e^{(az$$