$$\lim_{x \to -\infty} (f_{CX}) = \lim_{x \to -\infty} (A_{OR}^{-1}(x)) - \frac{17}{2} + \lim_{x \to -\infty} (\frac{\sqrt{|x|}}{\sqrt{1+\sqrt{|x|}}}) = \frac{1}{2} + \lim_{x \to -\infty} (\frac{\sqrt{|x|}}{\sqrt{|x|}} + 1 - 1) = -\frac{17}{2} + \lim_{x \to -\infty} (\frac{\sqrt{|x|}}{\sqrt{|x|}} + 1) = -\frac{17}{2} + \lim_{x \to -\infty} (\frac{\sqrt{|x|}}{\sqrt{|x|}} + 1) = -\frac{17}{2} + \lim_{x \to -\infty} (\frac{\sqrt{|x|}}{\sqrt{|x|}} + 1) = -\frac{17}{2} + \lim_{x \to -\infty} (\frac{\sqrt{|x|}}{\sqrt{|x|}} + 1) = -\frac{17}{2} + \lim_{x \to -\infty} (\frac{\sqrt{|x|}}{\sqrt{|x|}} + 1) = -\frac{17}{2} + \lim_{x \to -\infty} (\frac{\sqrt{|x|}}{\sqrt{|x|}} + 1) = -\frac{17}{2} + \lim_{x \to -\infty} (\frac{\sqrt{|x|}}{\sqrt{|x|}} + 1) = -\frac{17}{2} + \lim_{x \to -\infty} (\frac{\sqrt{|x|}}{\sqrt{|x|}} + 1) = -\frac{17}{2} + \lim_{x \to -\infty} (\frac{\sqrt{|x|}}{\sqrt{|x|}} + 1) = -\frac{17}{2} + \lim_{x \to -\infty} (\frac{\sqrt{|x|}}{\sqrt{|x|}} + 1) = -\frac{17}{2} + \lim_{x \to -\infty} (\frac{\sqrt{|x|}}{\sqrt{|x|}} + 1) = -\frac{17}{2} + \lim_{x \to -\infty} (\frac{\sqrt{|x|}}{\sqrt{|x|}} + 1) = -\frac{17}{2} + \lim_{x \to -\infty} (\frac{\sqrt{|x|}}{\sqrt{|x|}} + 1) = -\frac{17}{2} + \lim_{x \to -\infty} (\frac{\sqrt{|x|}}{\sqrt{|x|}} + 1) = -\frac{17}{2} + \lim_{x \to -\infty} (\frac{\sqrt{|x|}}{\sqrt{|x|}} + 1) = -\frac{17}{2} + \lim_{x \to -\infty} (\frac{\sqrt{|x|}}{\sqrt{|x|}} + 1) = -\frac{17}{2} + \lim_{x \to -\infty} (\frac{\sqrt{|x|}}{\sqrt{|x|}} + 1) = -\frac{17}{2} + \lim_{x \to -\infty} (\frac{\sqrt{|x|}}{\sqrt{|x|}} + 1) = -\frac{17}{2} + \lim_{x \to -\infty} (\frac{\sqrt{|x|}}{\sqrt{|x|}} + 1) = -\frac{17}{2} + \lim_{x \to -\infty} (\frac{\sqrt{|x|}}{\sqrt{|x|}} + 1) = -\frac{17}{2} + \lim_{x \to -\infty} (\frac{\sqrt{|x|}}{\sqrt{|x|}} + 1) = -\frac{17}{2} + \lim_{x \to -\infty} (\frac{\sqrt{|x|}}{\sqrt{|x|}} + 1) = -\frac{17}{2} + \lim_{x \to -\infty} (\frac{\sqrt{|x|}}{\sqrt{|x|}} + 1) = -\frac{17}{2} + \lim_{x \to -\infty} (\frac{\sqrt{|x|}}{\sqrt{|x|}} + 1) = -\frac{17}{2} + \lim_{x \to -\infty} (\frac{\sqrt{|x|}}{\sqrt{|x|}} + 1) = -\frac{17}{2} + \lim_{x \to -\infty} (\frac{|x|}{\sqrt{|x|}} + 1) = -\frac{17}{2} + \lim_{x \to -\infty} (\frac{|x|}{\sqrt{|x|}} + 1) = -\frac{17}{2} + \lim_{x \to -\infty} (\frac{|x|}{\sqrt{|x|}} + 1) = -\frac{17}{2} + \lim_{x \to -\infty} (\frac{|x|}{\sqrt{|x|}} + 1) = -\frac{17}{2} + \lim_{x \to -\infty} (\frac{|x|}{\sqrt{|x|}} + 1) = -\frac{17}{2} + \lim_{x \to -\infty} (\frac{|x|}{\sqrt{|x|}} + 1) = -\frac{17}{2} + \lim_{x \to -\infty} (\frac{|x|}{\sqrt{|x|}} + 1) = -\frac{17}{2} + \lim_{x \to -\infty} (\frac{|x|}{\sqrt{|x|}} + 1) = -\frac{17}{2} + \lim_{x \to -\infty} (\frac{|x|}{\sqrt{|x|}} + 1) = -\frac{17}{2} + \lim_{x \to -\infty} (\frac{|x|}{\sqrt{|x|}} + 1) = -\frac{17}{2} + \lim_{x \to -\infty} (\frac{|x|}{\sqrt{|x|}} + 1) = -\frac{17}{2} + \frac{17}{2} + \frac{17}{$$

I shehig i geld con - 2.14 bis 1 => min 1 Nullshelle existient

2)
$$f: R \to R$$
, $K: I$ def

$$f(x) = \int_{R}^{1} \int_{R}^{1}$$

$$= D f(x) = \sum_{k=0}^{K} f(a) (x-a)^{k} \cdot \frac{1}{k!} + \int_{0}^{1} \frac{(x-a)^{k+1}}{k!} f(x+1) (x-a)^{k} dx$$

3)
$$f(R(s)) \rightarrow R$$
 $x \mapsto e^{\frac{1}{x}}$
 $\lim_{x \to 0} (e^{x^2}) | y^2 x^2 | y^2 x^2 = 0$
 $\lim_{x \to 0} (e^{x^2}) = 0$
 $\lim_{x \to 0^+} (e^{x^2}) = 0$
 $\lim_{x \to 0^+} (e^{x^2}) = 0$

$$\lim_{x \to 0} \left(\frac{2e^{x^2}}{x^3}\right) = 2 \lim_{x \to 0} \left(\frac{x^3}{e^{x^2}}\right) = 2 \lim_{x \to 0} \left(\frac{3}{e^{x^2}}\right) = 2 \lim_{x \to 0} \left(\frac{3}{e^{x^2$$

$$\lim_{x\to 0^{\dagger}} \left(\frac{2e^{x^2}}{x^3} \right) - 0 = \lim_{x\to 0^{\dagger}} \left(\frac{2e^{x^2}}{x^3} \right)$$

Gleide Vongdanneise lorst sich auf weitere Abl. con fanwenden.

4) 252= = dx - 1/2 52x3 = x dx = = Se du = (ex) = 1 = 2.0 - lin(2a) = 1-0 = 1 Jer+3er+2 dx -- Ju2+3u+2 du -J(u+2)(u+1) du= ju=ex

du-exdx =- S1+ 1 - 4 du =- Sdu + Sun du + Sun du = =-[w] -[ln(u+v], +[4 ln(u+2)], = A + B - -34-2 - - (0 - N-(ln(1) = lot2)+(4 ln(2) - 4 ln(3)= = 1+5 ln(2)-4 ln(3) = 1+ ln(25/34) 20.0729