Journ Joursels, Joh: OUT0600041 8cx = x²+2x+8 e x PU x70 X=0 e bepturanha $\frac{f(x)}{x} = \frac{(x^2 + 2x + 8)e^{\frac{1}{x}}}{1} = 1$ $\frac{f(x)}{x} = \frac{(x^2 + 2x + 8)e^{\frac{1}{x}}}{1} = 1$ $\frac{f(x)}{x} = \frac{(x^2 + 2x + 8)e^{\frac{1}{x}}}{1} = 1$ $\frac{f(x)}{x} = \frac{(x^2 + 2x + 8)e^{\frac{1}{x}}}{1} = 1$ $\frac{f(x)}{x} = \frac{(x^2 + 2x + 8)e^{\frac{1}{x}}}{1} = 1$ $\frac{f(x)}{x} = \frac{(x^2 + 2x + 8)e^{\frac{1}{x}}}{1} = 1$ $f(x)-ax = (x^2+2x+8)e^{\frac{1}{2}}-x =$ = (x2+2x+8)e4-x2 = lim x (e+1) + lime (2x+8) = = $\lim_{x \to \infty} \left(\frac{e^{x} + 1}{1} \right) + 2 = 1 + 2 = 3$ $\xi(x) = (x^2 + 2x + 8)^2 e^{\frac{1}{2}x} + x^2 + 2x + 8(e^{\frac{1}{2}x})^2 =$ $\frac{1}{\sqrt{(2x+2)-x^2+2x+8}}e^{\frac{1}{x}}+\frac{(x^2+2x+8)\cdot(-e^{\frac{1}{x}})}{x}=$ = $(2x^2+2x-x^2+2x-8)e^{-x}+(x^2+2x+8)e^{-x}$ $x(x^2-8)e^{\frac{1}{x}}-(x^2+2x+8)e^{\frac{1}{x}}=(x^3-x^2-10x-8)e^{\frac{1}{x}}$

 $f'(x) = e^{\frac{1}{x}(x^2 + x^2 - 10x - 8)} + (e^{\frac{1}{x}})(x^3 - x^2 - 10x - 8) = \frac{1}{x^3}$ $= e^{\frac{1}{x}\left(\frac{3x^22x-10)\cdot x^3-3x^2(x^3-x^2-10x-8)}{x^6}\right)} + \frac{e^{\frac{1}{x^2}} \cdot (x^3-x^2-10x-8)}{x^3} - \frac{1}{x^3}$ = ex (3x5-2x4-10x-3x5+3x4+30x324x2)-ex(x2x2-10x8) $= e^{\frac{1}{2}} \left(x^{4} + 20x^{3} + 24x^{1} - x^{4} + x^{3} + 10x^{2} + 8x \right) = \frac{1}{2}$ = (21x2+34x+8). ex $(x^{3}-x^{2}-10x-8)e^{1/x}$ 7-2V-170X47 Efter x ∈ (-∞; -2) U(-1; 0) V(u;+∞)-7 pacre -2-10xa1en X6(-2;-1)V(0; 4)-7 hauasaba magne. -1, 4- novaner f''(x) = 0 $x_1 = -\frac{28}{26} = -\frac{4}{3}$ undonexchu $x_2 = -\frac{6}{21} = -\frac{2}{3}$ torvu Munuman Wodalhu HARA X € (-00; -4) U(-2; 0)-Bg 18 DHOTO ALBAY" XE (-3;-2) V(0;+00) - USNOWHAIA

