2) fr (0) = him f(0+0x) + f(0) = lin (+0x -0) = 1 fr (0) = lim f(0) - f(0-0x) - lin 0-0+6x = + for (0) = for(0) = guggerenglistua (1 11.16 f(x)= \(\frac{1}{1+e^{\frac{1}{2}}} \), \(\text{x} = 0 \), \(\text{11} \), \(\text{x} = 0 1) for (0) = lim f(0+0x) - f(0) 1/105 = 1/10 f (0) = lin + (0) - 1(0-Δx) - lin 0 = 1 = 1

Jn (0) ≠ f (0) = γαραγερεκεμίνοδερα 1/20 x +0 $f'(x) = \frac{1}{4} e^{\frac{1}{x}} \cdot x(e^{\frac{1}{x}}) \left(\frac{1}{x^2} \right) = \frac{1}{(1+e^{\frac{1}{x}})^2} = \frac{1}{(1+e^{\frac{1}{x}})^2}$ 11.18 f(x)=x-1x) = (x2x20 f'(x)=(2x, x20 $f(x) = x^2 sgn x$ f'(x) = 2x · sqnx = 21x1 fin (a) = lim f(0+0x1-f(a) = lim (3x5-0 = 0 fi (0) = lim 0- (0-0x)(-0x) = lim (0x) = 0 fin(a) = fi (a) = gugsenengiiobeter of H. 21 f (x) = [x] Sin TEX Kpa x & R 2: f(K)=0, KEZ f(K) = REXIGNAX fn(K)= lim f(K+AX)-f(K) AT . (-1) x fi'(x) = six, 1(x) = 1(x-ax) = (x-1)n.60x

