

data 1100110 3) 2- x2, x>0 t, (se) ; f(x)=2, 250. para 200 =0 f)(20)=- 22c para 200 => f)(20 = 0 h-po+ = lim h-pot hoot () (0) = lim + (0+h) £10). n 4)(0) = 0 -2x, 200 2x, 270 21=0 t)(30) = 26 20

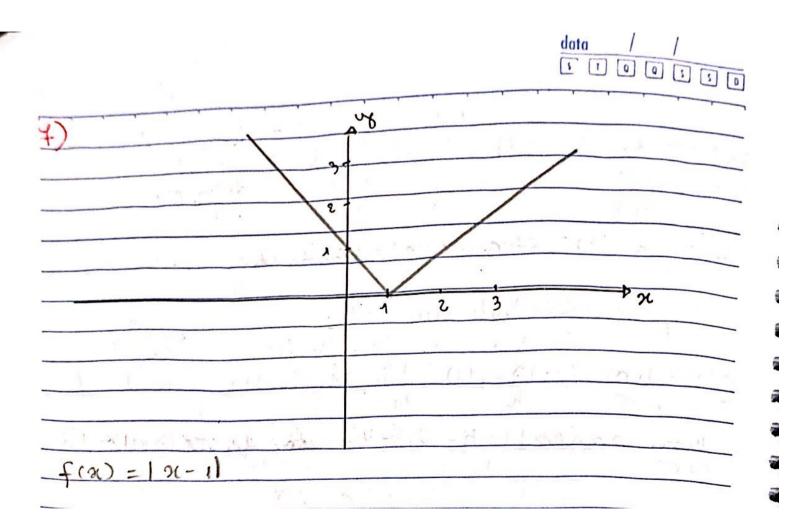
data / /
s T Q Q S S D g(x) = $3x^2-2x$, 2x+22000年 まりの(x)= 6x-2 2000年 3 (x)=3 f'(z) = lum f(2+h) - f(2) - lum 3(2+h) lim 3 (4+4h+h2)-4-2h-8 - dim 12+12h+ dim hoct 3h +10 6, (s) = pim t(s+p) - t(s) and n-00 h bo h mil oon 3 = 3 f'(2) + f'(2) -> A 5(5) 6 2c - 2, 26 72 0,(30) = 12 3, 222

data / 2 sen (1/2) 2 \$ 0 0, 2=0 9(0)? -1 & sem (1/21) 5 4 -22 & 22 sem (1/21) 5 2 p(sc) = sc2 h'(20) = 220 h'(0) = 0 6)(0)=0 0=(0)20

[$g(x) = \begin{cases} |x - [x]|, & [x] = 0 \text{ or par} \\ |x - [x + i], & [x = i] \text{ impar} \end{cases}$ f(x) = sen (#g120) f)(1)=? h-pot f(1+h)-f(1) h-00 h t(1)= 3 [[+]]=1 = | 1 = | 1 - 1 = | 1 - 2 = 1 = | 1 - 2 | = 1 f(1)= sen (生·1)= sen == 上 0<26<1 4 [[x]]=0 h-Dot --- 4 < 1+h < 2 => [[1+h]] = 1 g(1+h)= |1+h - [[1+h.+1]]= |1+h-2|= |h-1|=1-h 1 < 1+ h < 2 1 <1+h < 2 -1 < 1+h-2 <0 2 < 1+ 1+ 1 < 3 LD [[1+h+1]=2 -1 < h-1 < 0 lon-12 majatro

$$f(1+h) = \Delta \ln(\pi_{2} g(1+h)) = \Delta \ln(\pi_{2} (1-h)) = \Delta \ln(\pi_{2} - \pi_{2} h) = \Delta \ln(\pi_{2} - \pi_{2}$$

hode t(1) = 011



8)
$$J = \sqrt{\alpha(x \cdot 1)(x - 2)(x - 3)}$$

$$J_{1}(y) = J_{1}(x \cdot 1)(x - 2)(x - 3)J$$

$$J_{2}(y) = \frac{1}{2} \left[J_{1}(x) + J_{2}(x - 1) + J_{2}(x - 3)J +$$

c)
$$y = (x^2 + 4)^{2x}$$
 $ln(y) = ln(x^2 + 4)^{2x}$
 $ln(y) = x \cdot ln(x^2 + 4)$
 $ln(y) = x \cdot ln(x^2 + 4)$
 $ln(y) = x \cdot ln(x^2 + 4) + x \cdot \frac{2x^2}{x^2 + 4}$
 $ln(y) = y \cdot (ln(x^2 + 4) + \frac{2x^2}{x^2 + 4})$
 $ln(y) = ln((x^2 + 4)^2 \cdot (ln(x^2 + 4) + \frac{2x^2}{x^2 + 4})$
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Functio hipubólica

y = senher - y' = conher

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e)
$$y = (n+1)(n+2)(n+3)$$

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

 $\frac{dv_8-1}{2^{12}} = \frac{1}{3} \sqrt{\frac{(2x-1)(2x-2)(2-3)}{2^{12}+21+1}} \cdot \left(\frac{1}{2x-1} + \frac{1}{2x-2} + \frac{1}{2x-3} - \frac{2x+1}{2x^{12}+2x+1}\right) / \sqrt{\frac{1}{2x^{12}+2x+1}}$

$$g_{3}=(x_{4}+x_{5}+1)x_{5}$$

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$$\frac{dy}{dx} = (x^{4} + x^{2} + 1) \cdot \left[2x \ln(x^{4} + x^{2} + 1) + \frac{4x^{5} + 2x^{3}}{x^{4} + x^{2} + 1} \right]$$