"Tugas Pertenuan lo" " Paulus Abraham Moung 9 1/ y= x3-3x => -2,-1,0,1,2 Witam = low f(c+h)-f(c) = 1m (((+h)3-3(+h))-(c3-3c) = lin 23+3c2h+3ch2+h3-36-3h-13+3C = lim h3+3 c2h + 3ch2 + 3h = lim K (h2+3c2+3c4+3) = 11m h2+3+2+3ch+3 0 (0)2+3e2+3e(0)+3 0 =) =-2,-1,0,1,2 Mtan = 3 c2 + 3 (=) 3 (-2)2+3 = 15 =) title Fortinat (-2,15 (=73(-1)2+3=6=) titile Exertinat (-1,6) (=)3(0)2+3=3=7 titile Exertinat (0,3) e (=) 3 (1)2+3 = 6 => title Econtinat (1,6) => thile facortinat (2, 15) L= > 3(2) + 3 = 15

$$M_{tan} = \lim_{h \to 0} \frac{f(c+h) - f(c)}{h}$$

$$= \lim_{h \to 0} \frac{f(0+h) - f(0)}{h} = \lim_{h \to 0} \frac{f(h) - f(0)}{h}$$

$$= \lim_{h \to 0} \frac{1}{h-1} - \left(\frac{1}{-1}\right) = \lim_{h \to 0} \frac{1}{h-1} + 1$$

$$= \lim_{h \to 0} \frac{1 + h-1}{h-1} = \lim_{h \to 0} \frac{h}{h-1}$$

$$= \frac{1}{h+10} \frac{1}{h-1} = \frac{1}{b-1} = -1$$

$$y - (-1) = -1 (x - 0)$$

 $y + 1 = -1 (x - 0)$

3/ S=f(x)= {2+1 => t=2

V= lm f(t+h)-f(t)

 $= \lim_{h\to 0} \frac{f(2+h) - f(2)}{h}$

= lan (2+h)2+1-(22+1) = h2+4h+4+1-5 h+0 h

1 h-90 4 h-100 K

= 1 m h+4 = 0+4

V = Y -) jati kecepatan sesart pada alchar 2 defile

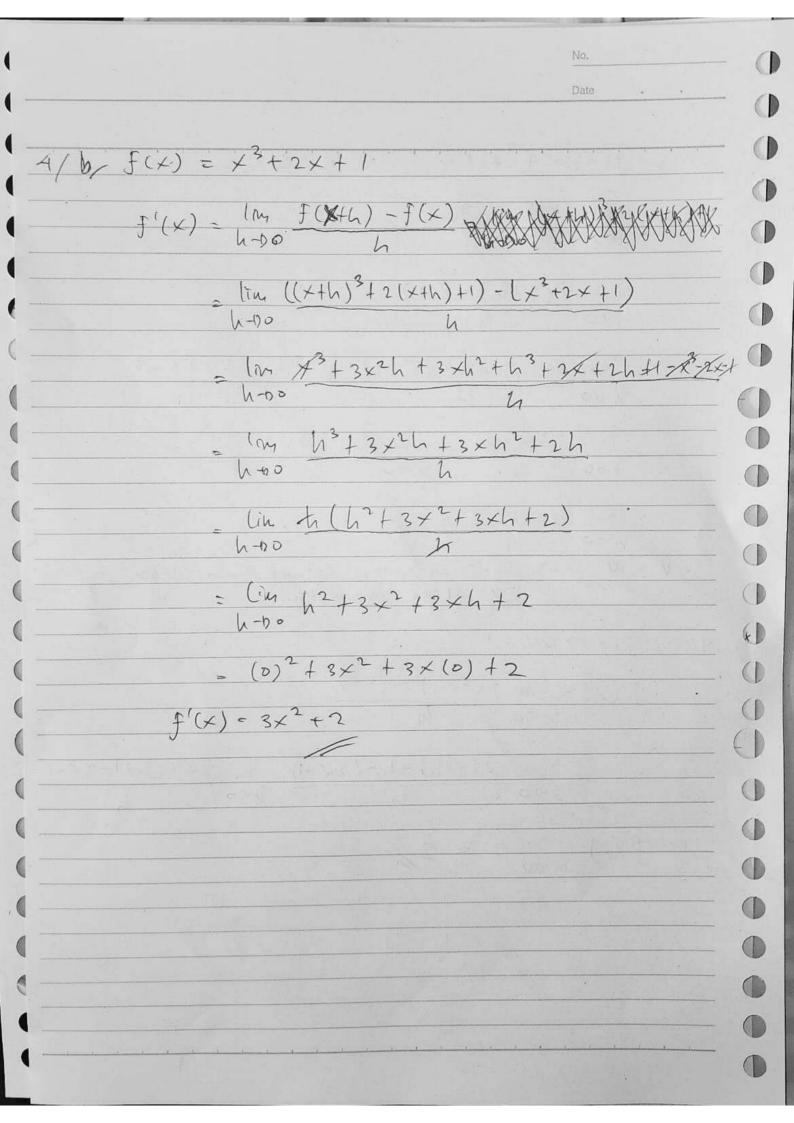
4/a/f(+)=2++1

0

f'(x) - lon f(x+4) - f(x)

1 - 10 2 (x+h) +1 - (2x+1) = 1 m 3x +2h+1-2+>1 h-10 h-10 h-100 h

f'(x)= 1m 2 = 2/



$$S/(ar) f(x) = 2x^{-2}$$

$$= \frac{1}{2x^{2}}$$

$$= \frac{1}{3x \times 9}$$

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