bate

Hama: Paulus Abraham Moury / from 240102116 Dik: y = x2-4x (=) x = -2, -1,0,1,2 Mtan = f(c+h)-f(c) = (m f(c+h)-f(c) = (im (th) - 4(th) - (2-40) = lim &2+2ch + h2-4c+4h-62+46 = lim 2ch + h2 - 4h - lim h (2c + h - 4) 4-20 Mtm. 600 20 fh - 4 = 20-4 title ecordinal (-2,8) X = -2 (=5 +2(-2)-4 =-8 -1) -0 title (2000strat (-1,-6) 2(-1)-4 = -6 137 (0,-4) -0 titik portual L7 2(0)-4 = (1,-2 Atile. Proording 2-7 2 (1) -4 ; -2 -1) title Coordinat (2,0) LET 2 (2)-4 = 0

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3- pile: y = - + + + + (0, -1)

mfin = (m f(c+h) - f(c); (m f(0+h) - f(0))

 $= \lim_{h \to 0} f(h) - f(0) \qquad \lim_{h \to 0} \frac{1}{h + 1} + 1$

= $\frac{\ln \frac{1+h-1}{h}}{h} = \frac{\ln \frac{h}{h}}{h}$

= lm h (in 1-1)

Man = 0-1 = -1

Singgan: 9-40= m (x-+0)

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

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Mana: Paulus Alerah om Mouny / flow 240102116
a. f(x): (2x2+3x)(+3-4x+3)
                            V = x3-4x+3
     mis: 4 = 2 x + 3 x
                            V= 3×2-4
          u' = 4x +3
     3 (x) = u'v + uv'
            = (4x+3)(x3-4x+3)+(2x2+3x)(3x2-4)
            = 4x4-16x712x+3x3-12x+9+6x4-8x2+9x3+
              10+4+12×3-24+2-12×+3
     f(x) = 3x2+2x-4
     mit · U = 3x2+2x -4
                              V= 3x-2
            u' = 6+ +2
           = (6++2)(3x-2)-1(3x2+2x-4)(3))
                           ( 13 x -2) 2
              13x2-12x+6x-4-9x2-6x+12
                  \left(9 \times^2 - 12 \times + 4\right)
       f'(x) = \frac{9x^2 - 12x + 8}{9x^2 - 12x + 4}
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0

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(y) a,) + 2 V + 3 + 4 d x =) (x3+4) 1/2 x 2 dx Mis: U = +3+4 make = = 3×2 (=) u/2. = du + t (=) 3 (8) . 8

0

, 0