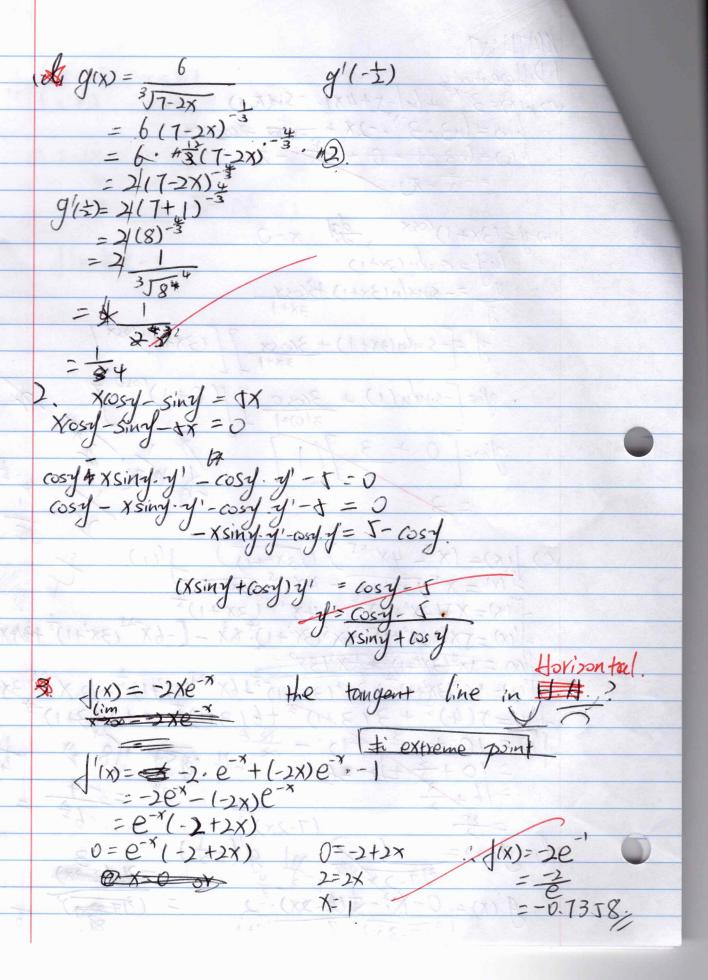
MATHIT Differentiate as hix)=3-x + (n/-5+4x/ -SIN(XX) h'(x) = (n3.37.-2x+ + -160s(xx)) h'(0) = (n3.1-0+ + -70) = - + -70. (b)y=(3x+1)(05x (ny = coskn(3x+1) y = - sinx(n(3x+1) +3cosx 3x+1 y'=[-Sindn(3x+1)+3605x] (3x+1)(05x -singn(1) + 3(050] [(0+1 (c) $f(x) = (X^{5} - 4X^{-1.5}) (J_{3}X^{2} + I)$ $f'(x) = X^{5} J_{3}X^{2} + I - 4X^{-1.5} J_{3}X^{2} + I$ $f'(x) = X^{5} (3X^{2} + I)^{\frac{1}{2}} - 4X^{-1.5} (3X^{2} + I)^{\frac{1}{2}}$ $f'(x) = (X^{4} (3X^{2} + I)^{\frac{1}{2}} + X^{5} (3X^{2} + I)^{\frac{1}{2}} + X^{\frac{1}{2}} (3X^{2} + I)^{\frac{1}{2}} (3X^{2$ $(4)^{2} + 3(3+1)^{2} + 6(3+1)^{2} - 12(3+1)^{2} + 3(3+1)^{2} + 6(3+1)^{2} - 12(3+1)^{2} + 3(3+$ (7-2x)3



MATH 157 $|x| = \frac{1}{3} \times \frac{1}{3} - \frac{1}{3} \times \frac{1}{3} + \frac{1}{3} \times \frac{1}{3} + \frac{1}{3} \times \frac{1}{3}$ Tips: The consumer of /1(x) is the 斜率. (slope). 平行, 斜率一样 1. 1'(-3) 1(x)=1-24-7x 1(int) 24-7x 24-7x 2 24-7x 2 (a) = hoof (a+h) - day If the limit exist. 1'(-3)= h->0 11-3+h)-1(3) = 1-J4-71-3+W-(1-J4+21) = 1- J4+821-7h +4 000 = S-J25-7h = 25= (xt-7/2) 4005+Th) 4(25 J+ 55-Th) - W7K h (5+ 55-7h)

