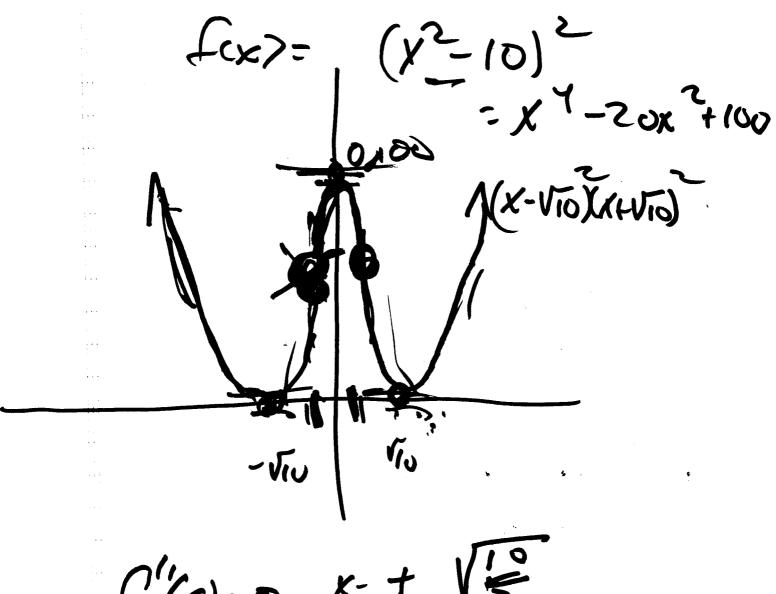
4 = X2 = 10 UZ 9/28  $f(x) = (x - 10) = x^{4} - 20x^{2} + 100$  f(x) = 0 where what x Ex5 = 15x5 - 10  $f(x)=2(x^2-10) \cdot (2x-0)$ 2(x2-10)(zx)-4x/2-10 fixted at X=0, = Vio ("(x)=4) 1(x2+0)+x(2x)  $= \frac{4 \left[ x^2 - 10 + 2x^2 \right]}{4 \left( 3x^2 - 10 \right)}$ F'(x)=0 when x=t1/3



x= + V19 f'(x)=0

increases f's decreases C">0, Inc/Dec fine / rothe right as x ileps Concave down Concave up F'<0 チ"とo

F(X)= \(\frac{1}{3\chi^2 + 4\chi + 7} = \(\frac{3\chi^2 + 4\chi + 7}{2\chi} \)  $= (U(x))^{\frac{1}{2}} \quad V(u(x))$   $= (V(x)-x^{\frac{1}{2}})^{\frac{1}{2}} \quad V(x)=x^{\frac{1}{2}}$ f(x)= = (ux)) = o u(x) V(u(x)). u'(x) f'(x)= = (3x2+4x+7). (x+4)

f(x)= M(x(n(x))) f (x) = W (r(u(x))) o V (u(x)). Li(x) W=3Z Z=54 4=7x W = 3(5(7.x))= (3.5.7) X dw = dw de dý dx = dw Try dx

 $(x) = \sqrt{(5/x+3)^2}$   $(x) = (5/x+3)^2/3$   $(x) = \frac{1}{3} (5/x+3)^2/3$  (5/x+3)/02(5/x+3).5/3

f(x)= ex f'(x)= ex 2x

f(x)= ex f'(x)= ex 2x

du ex = ex du

dx ex ex ex du

dx

(x3+1)7  $f'(x) = (3x^3)$   $7(x^3+1)^6$   $3x^2$  $f(x) = e^{x^3}$   $f'(x) = e^{x^3} \cdot 3x^2$   $f'(x) = e^{x^3} \cdot 3x^2$ C(x)= Sinx f'(x)= Cosx  $f(x) = Sin(x^2) f(x) = cos(x^2) \cdot cosx$   $f(x) = e^{sin(x)} f(x) = cos(x^2) \cdot cosx$   $f(x) = \chi^{\frac{1}{5}} (2x+5)^{\frac{1}{5}}$   $f(x) = \frac{1}{5} \chi^{\frac{1}{5}} (2x+5)^{\frac{1}{5}} (2x+5)^{\frac{1}{5}} (2)$  u' V + u V'

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