1) Multiply the power of

the Charlet by the

Malbiply the remainsofresult by the first decourse of the

coefficient.

@ Kedace the power by 1.

Chair Bede feet = (1+40) 12

Gust in case)

 $f'(50) = \frac{1}{2} (1+400)^{-\frac{1}{2}} (4)$

 $f''(\alpha) = -\frac{1}{4}(1+4\alpha)(4)$

 $y = \left(x^2 + 2x + 1\right)^3$

het u= x2 + Dat1 => q= 1 u3

 $\frac{du}{dx} = 2\infty + 2 \qquad \text{ for } dy = 3\mu^2$

 $\frac{dy}{da} = \frac{dy}{da} \cdot \frac{du}{da} \Rightarrow 3\mu^2 \times (2\alpha + 2)$

= 3 (oc2+ 2ati) (2a+2)

 $o(3+oc)^{-1} = 3^{-1}(1+oc)^{-1}$ Ranges => 00 - 1 4 80 4

-1 60/3 41 => -3400 43

MAY BE HELPFUL TO PULL FACTORS FROM BRIACKETS

Binomarely (1+00)" = 1 + NOC + 000

Secres

 $\Rightarrow (2^{3} + 400)^{3} = 2^{3}(1 + 20)^{3}$

= $2^3(1+3(200)+3(2)^2+000)$

= 8 (1 + Goc + 12xx1 + 000)

= 8 + 480c + 960c2 + ...