Poublais on differention 6/1/2021 0 y = e2x $y = e^{qn}$ $dy = ae^{qn}$ dy = 2e2x ; d(214) = nx 25 = 3n2 3 y= Sin 27 du _ 2682X (og (31) d12 (2x) dy = x.2ex+ex.(1)

$$y = \frac{\chi^{2}}{1+\chi} = \frac{q}{q}$$

$$x \frac{d}{dn} \left(\frac{u}{u}\right) = \frac{udu - udu}{(e^{2})^{2}}$$

$$dy = \frac{(1+\eta)(2\eta) - \eta^{2}}{(1+\eta)^{2}}$$

$$= \frac{2\eta + 2\eta^{2} - \eta^{2}}{(1+\eta)^{2}}$$

$$= \frac{\chi(2+\eta)}{(1+\eta)^{2}}$$

$$= \frac{\chi(2+\eta$$

find dy there y= 285mx

3 = x Sinx (1) lænsider løge on b.S løgg = løg (x sinn) logy = Sinni logx w-r. to x - Sinn dicogn + logn de (sinn) < 80 mm (1) + log x (68 m) Sinn + Coln Logn Sind + Coln Gen doldn = nesimm [soint + and loon]

y=(8inx) logy = log ((sinn)) logy = 21 108/85m diff. 0-5.60 x 7 db = 2 [85mm cosn) log (85mm) = n (ota + log(kina) dos = yl dy = (65mm) [mota+lop(83mi)] (3)=(tann)(12) logy = n2 log (tann) \frac{1}{9} \frac{1}{9\pi} = \gamm^2 \left(\frac{1}{49m}\right) + 2\alpha \log(\frac{1}{49m}\right) I dy = n2 sect + 27 log (tann)

dy = (tann) n2 (22 seen + 24 lop (tann)) Porautice (58(m²)) differentiation of parameter functions Alene O Find dy ; y = 85 nt n=logt y = 9 (+) n=f(+)

a) n=t & y= Lost digg-ney w-o-tot we get

$$\frac{dv}{dt} = 2t$$

$$\frac{dv}{dt} = -8int$$

$$\frac{dv}{dn} = \frac{dv}{dn} = -8int}$$

$$\frac{dv}{dn} = -8int}$$

$$\frac{dv}{dn} = -3int}$$

pordice のカーにも ; 75-2) n=a(0-8in0) y=a(1-coso) *Successive différentiation: y = f(x) 8+ duivotike 342,62;60