Problems on differentiation 30 12 2020 0 y=625-422+921+10 $\frac{d(n)}{d} = n n^{-1}$ soln; diff worth & we get dy = 6 d(xs) - 4 d(x2) + 9 d(x) + 8(10)

dn = 6 d(xs) - 4 dx =6(5x4)-4(2x)+9(1)+0dy = 3074-871+9) $\frac{d(x)=0.5}{dn}(n)=1; \frac{d(n^2)=2x3d(n^3)=3n}{dn}$ 2) y= \1+8 3/21-24/x $\times\sqrt{n}=n^{2}$; $3\sqrt{n}=n^{2}$; $\sqrt{3}$; $\sqrt{3}=n^{2}$ Solu dy = d (1/2) + 8 d (1/3) - 2 d (1/4) *

In = dn (1/2) + 8 d (1/3) - 2 d (1/4) $=\frac{1}{2}\chi^{\frac{1}{2}-1}+8\cdot\frac{1}{3}\chi^{\frac{3}{3}-1}-2\cdot\frac{1}{4}\chi^{\frac{3}{4}-1}$ = \frac{1}{2} \gamma^{\frac{1}{2}} + \frac{8}{3} \gamma^{\frac{3}{4}} - \frac{1}{2} \gamma^{\frac{3}{4}} = 2 x 2 + 3 x 2/3 - 2 x 3/4 x = 212 + 33 712 241 x3

3 f(t) =
$$\frac{4}{t} = \frac{1}{6t^3} + \frac{8}{t^5}$$

 $f(t) = 4 \cdot t^{-1} - \frac{1}{6} t^{-3} + 8 t^{-5}$
 $f(t) = 4 \cdot t^{-1} - \frac{1}{6} t^{-3} + 8 t^{-5}$
 $f(t) = 4 \cdot t^{-1} - \frac{1}{6} (-3t^{-5})$
 $f(t) = 4 \cdot (-1t^{-1}) - \frac{1}{6} (-3t^{-5})$
 $f(t) = 4 \cdot (-1t^{-1$

$$\begin{array}{l}
3 & 4 = 6x^{3} - 7x + 3 \\
4 & 7x^{2} - 7x^{2} + 7x^{2} \\
4 & 7x^{2} - 7x^{2} + 7x^{2} \\
4 & 7x^{2} - 7x^{2} + 7x^{2} \\
4 & 7x^{2} - 7x^{2} + 3x^{2} \\
7 & 7x^{2} - 7x^{2} + 3x^{2} \\
7 & 7x^{2} + 3x^{2} + 3x^{2} \\
7 & 7x^{2}$$

$$\frac{dR}{dS} = -9 \begin{cases} -\frac{1}{2} \frac{3}{5} + \frac{10}{3} \frac{3}{7} \\
 = \frac{-9}{\sqrt{35}} - \frac{1}{2} \frac{3}{5} + \frac{10}{3} \frac{3}{7} \\
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Problems on Quotient & Product Trule de (uv) = udv + vodu (product) dn(4) = vdu - udo (4t2-t)(t3-8t2+12) ditte-w.r.t. t f'(+) = (4+2-+) d (+38+2+12) $+(\frac{13}{8}+2+12)d(4t^2-t)$ $-(4t^2-t)[3t^2-16t+0]$ + (+3-8+2+12)(8+-1) =12t4-64t3-3t3+16t78t41+3 -64+3+8+2+96+-12 - 20+4-132+3+24+796t-12 $\frac{3}{2}$ $y=(1+\sqrt{n^3})(\bar{x}^3-2\sqrt{3})$ diff with