Poda & Calco Heric Camaryo Gir 20203959 1) fix = {x+ Se x \le 10 | mx+h Se x \le 20 | 1 m x = 20 400 Paraserdentaled as limites laterais dellam sur cours 1 im mx+b=900 Para Gr dcR. Vel Va 20MAD 900 AUNIA QUE COMS PONDE E M=40 e b=-400 3)  $h'_{(1)} = f'_{(1)} \circ o(1) + f(1) \cdot g'_{(1)} \circ g(x) = h(x)$   $2 \cdot p'_{(1)} \cdot g(1) + -7 \cdot 2$   $p'_{(1)} \cdot g(1) = 2 + 19$   $g(1) = \frac{h(1)}{p(1)} = \frac{7}{7} = 2$  $25(12)^{2} + 36y^{2} + 288$   $25(12)^{2} + 36y^{2} + 288 \Rightarrow 25(19)^{4} + 36y^{2} + 288 \Rightarrow 25(19)^{4} + 36y^{2} + 298$   $25(12)^{2} + 36y^{2} + 288 \Rightarrow 25(19)^{4} + 36y^{2} + 298$   $25(12)^{2} + 36y^{2} + 288 \Rightarrow 25(19)^{4} \Rightarrow 36y^{2} + 299 \Rightarrow 36y$ Parcial :  $\frac{1}{3}\left(\frac{3}{18}\right) = \frac{3}{34}$  Inflict  $\frac{3}{34} = \frac{3}{34}$   $\frac{3}{34}\left(\frac{3}{18}\right) = \frac{3}{34}$   $\frac{3}{34}\left(\frac{3}{18}\right) = \frac{3}{34}$   $\frac{3}{34}\left(\frac{3}{18}\right) = \frac{3}{34}$ 

$$\frac{\partial y(x)}{\partial x} = \frac{x}{24}$$

$$\frac{\partial y($$

4) 
$$\lim_{x\to 0} \left( \frac{cs(sx)-1}{9x^2} \right) = \lim_{x\to 0} \left( \frac{d}{dx} \left( \frac{cs(sx)-1}{4x^2} \right) \right) = \lim_{x\to 0} \left( \frac{-ssen(sx)}{8x} \right)$$

1 im  $\left( \frac{ssen(sx)}{8x} \right) = \frac{2scs(sx)-1}{8} = \frac{2s}{8} = \frac{3,12s}{8}$ 

5)  $f(x) = \ln(800x^2 + 7100) \Rightarrow f'(x) = \frac{d}{dx} \left( \ln(800x^2 + 7200) \right)$ 

5) 
$$f(x) = \ln(800x^2 + 7100) \Rightarrow f'(x) = \frac{1}{4x} \left[ \ln(800x^2 + 7200) \right]$$
  
 $f'(x) = \frac{1}{4x} \left[ \ln(9) \cdot \frac{1}{4x} \left( 800x^2 + 7100 \right) \Rightarrow f(x) = \frac{1}{6} \cdot 800 \cdot 12 \Rightarrow f(x) = \frac{1}{800x^2 + 7100} \cdot 800 \cdot 12 \right]$ 

$$f'(x) = \frac{1}{x^{2}+9} \Rightarrow f''(x) = \frac{1}{8x} \left(\frac{1}{x^{2}+9}\right) \Rightarrow f'(x) = \frac{1}{x^{2}+9} \left(\frac{1}{x^{2}+9}\right) \Rightarrow f'(x) = \frac{1}{x^{$$

$$\begin{cases}
(82+9)^{2} & 90^{2} & 960^{2} & 8200 \\
81x^{2} = (82+2)^{2} \times (9x+5) + 9
\end{cases}$$

$$\begin{cases}
(82+9)^{2} & 90^{2} & 960^{2} & 8200
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$$\begin{cases}
(82-9)^{2} & 960^{2$$