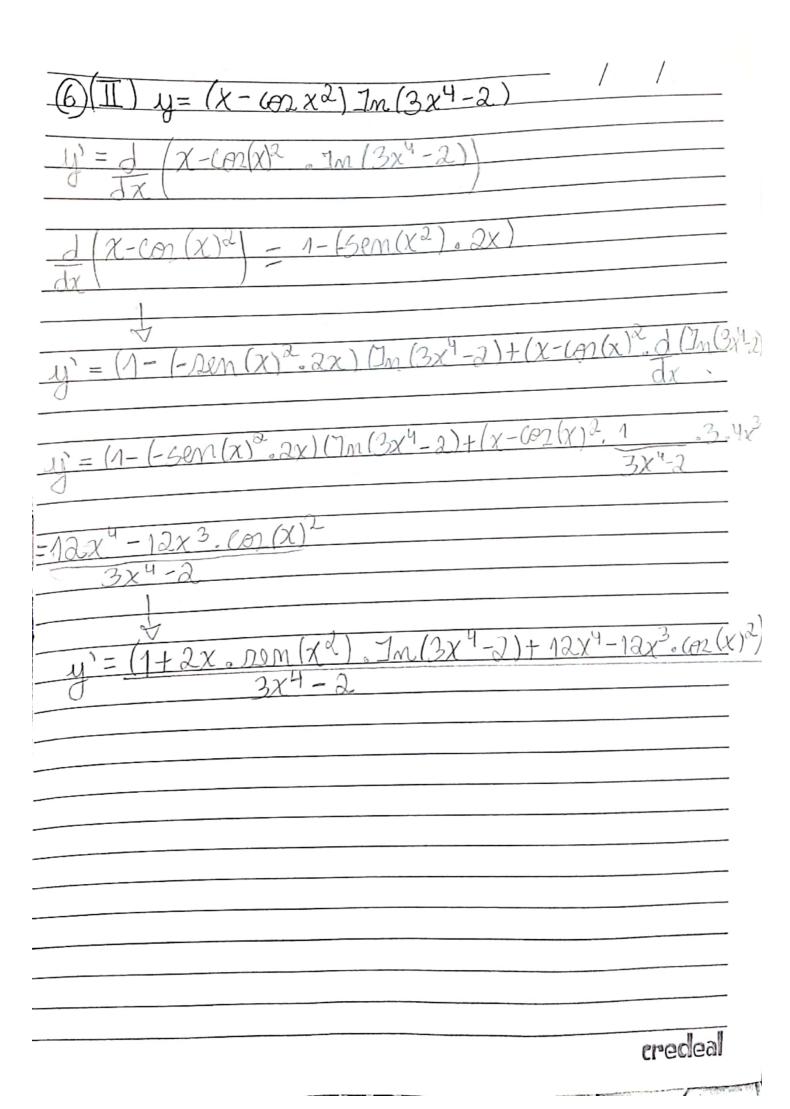
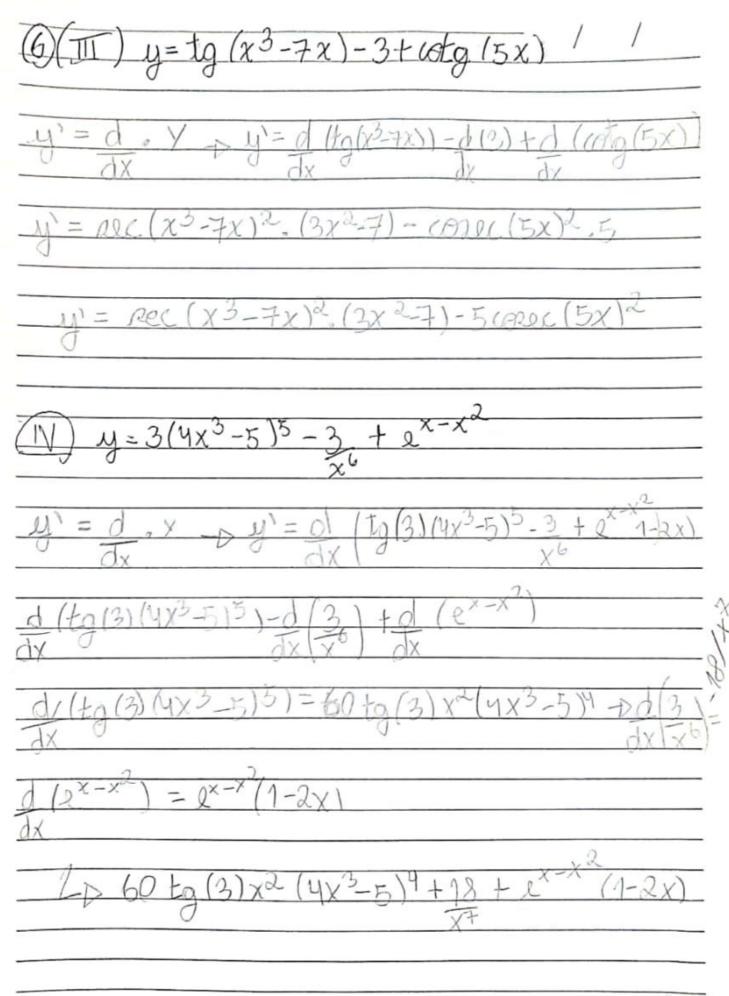


3) f(x) = 2x2 px dens port + +2 -> //
$\lim_{X \to 2} \frac{\chi^2 - y}{\chi^2 - y} \to \lim_{X \to 2} \frac{\chi^2 - y}{\chi^2 - y$
· Assintonas vertirais -> 2 2 -2.
$\frac{f(x) = 2x^2}{x^2 - 4}$
$\frac{\text{limi } (2x^2)}{X+t+\infty} = \frac{2x^2}{x^2+4} + \frac{2}{x^2+4}$ $\frac{\text{limi } (x^2-4)}{x^2+4} = \frac{2x^2}{x^2+4} + \frac{2}{x^2+4}$ $\frac{\text{limi } (x^2-4)}{x^2+4} = \frac{2x^2}{x^2+4} + \frac{2}{x^2+4} + 2$
· Appintona horizontal da função - D 2
$4) \chi^2 - \varrho^2 + 2 = 0$
$\frac{1}{1}(x) = 1,1 = 0,1)^{2} - (e^{1})^{2} + 2 = -0,23$
$f(x) = 1, 1 \Rightarrow (1, 1)^{2} - (e)^{1} + 2 = -0, 23$ $f(x) = 1, 5 - 10(1, 5)^{2} - (e)^{1,5} + 2 = 0, 21$
47 Internolo & [1,1; 1,5]

$(5) l(x) = x^2 - u$
derivada = D d (12) - d (4)
$\frac{1}{\sqrt{2}}$ $\frac{dx}{dx}$
$\int_{-\infty}^{\infty} (x) = 2x I$
$0'(1) = 2 \cdot 1 = 2$
→ f'(1) significa que é a tangente do ponto, quando o x = 1
$G(T) u = x^2 - 1$
$(6)(1) y = \frac{x^2 - 1}{x^3 - \lambda \ln(x)}$
$y' = \frac{d}{dx} \left(\frac{x^2 - 1}{x^3 - nom(x)} \right) y' = \frac{d}{dx} \left(\frac{x^2 - nom(x) - (x^2 - 1)}{(x^3 - nom(x))^2} \right)$
$y' = 2x(x^3 - nem(x) - (x^2 - 1)(3x^2 - cen(x))$ $(x^3 - nem(x))^2$
$\frac{4y' = -x^4 - 2x pom(x) + x^2 \cdot (m(x) + 3x^2 - (m(x))}{(x^3 - pom(x))^2}$
$y' = -x^{4} - 2x \cdot nom(x) + x^{2} \cdot (on(x) + 3x^{2} - (on(x) + 3$
crecleal





credeal