F(x)-2x3

F(x)= 1x4+2x3 - 1x2+1

 $=b(y^2, 1, x^{4-1}) + (3!, 2.x^{3-1}) - (3.1, x^{2-1}) + 0.$

=0 (2x3) + (2x2) - (x

 $f(x) = x^{3} + 1/x$

 $f(x) = x^2 + (x)^{\frac{1}{2}}$

 $f'(x) = 2.x^{2-1} + \frac{1}{2}.x^{2} = 5(2x) + \frac{1}{2}x^{2} = 5(2x) + \frac{1}{2}.\frac{1}{2}$

3) f(x) = x3. cos(x)

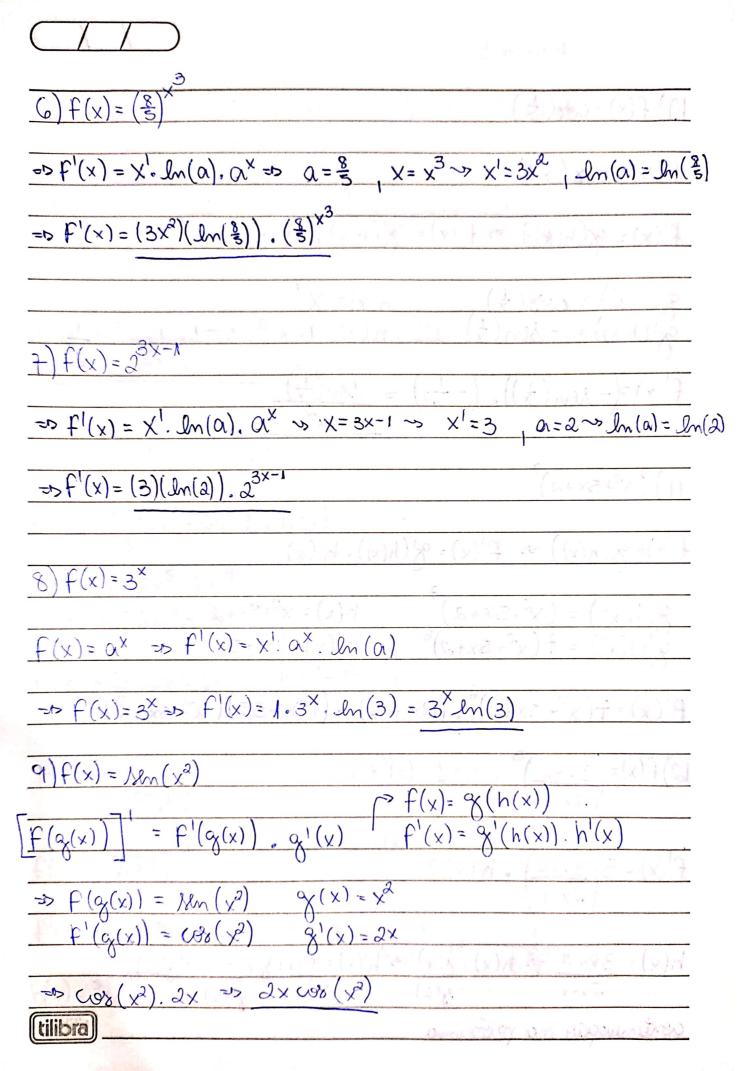
f(x) = a(x) + b(x) = b(x) = a(x)b(x) + a(x)b(x)

 $ab o (x) = x^3$ b(x) = cos(x) $ab o (x) = 3x^2$ b'(x) = -lln(x)

 $\Rightarrow f'(x) = 3x^2 \cos(x) + \left(-x^3 \cdot \sin(x)\right) = 3x^2 \cos(x) - x^3 \sin(x)$

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4) $f(x) = x^3(3x^2 - 3x)$
$F(x) = \alpha(x) + b(x) = \alpha'(x) + \alpha(x) + \alpha(x) + \alpha(x) + \alpha(x) = \alpha'(x) + \alpha(x) + \alpha(x) + \alpha(x) = \alpha(x) + \alpha(x) + \alpha(x) + \alpha(x) + \alpha(x) = \alpha(x) + \alpha(x) $
$a'(x) = x^3$ $b(x) = (ax^2 - 3x)$ $a'(x) = 3x^2$ $b'(x) = 4x - 3$
= $5f'(x) = 3x^{2}(2x^{2}-3x) + x^{3}(4x-3) = 5(6x^{4}-9x^{3}) + (4x^{4}-3x^{3})$
5)f(x)=3x+5 $4x$
$F(x) = \frac{\alpha(x)}{b(x)} \Rightarrow f'(x) = \alpha'(x)b(x) - \alpha(x)b'(x)$
$a(x) = 2x + 5$ $b(x) = 4x$ $b^{2}(x) = 16x^{2}$ a(x) = 2 $b'(x) = 4$
$= 5 (2)(4x) - (2x+5)(4) = (8x) - (8x+20) = -20$ $= 16x^{2}$
$= 5 - (4.5)$ 5 $(4.4)x^2$ $4x^2$
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10) f(x)=cos(=

(2) F(x) = 608 (x1) = x = x = x

(x) = X. M(a), Q = (x) 7 do

=> f'(x) = g'(h(x))(h)'(x)(\$)me)(

 $F(x) = \chi(h(x))$

(x2+5x+2)

f(x)= g(h(x)) => f'(x)= g'(h(x)). h'(x)

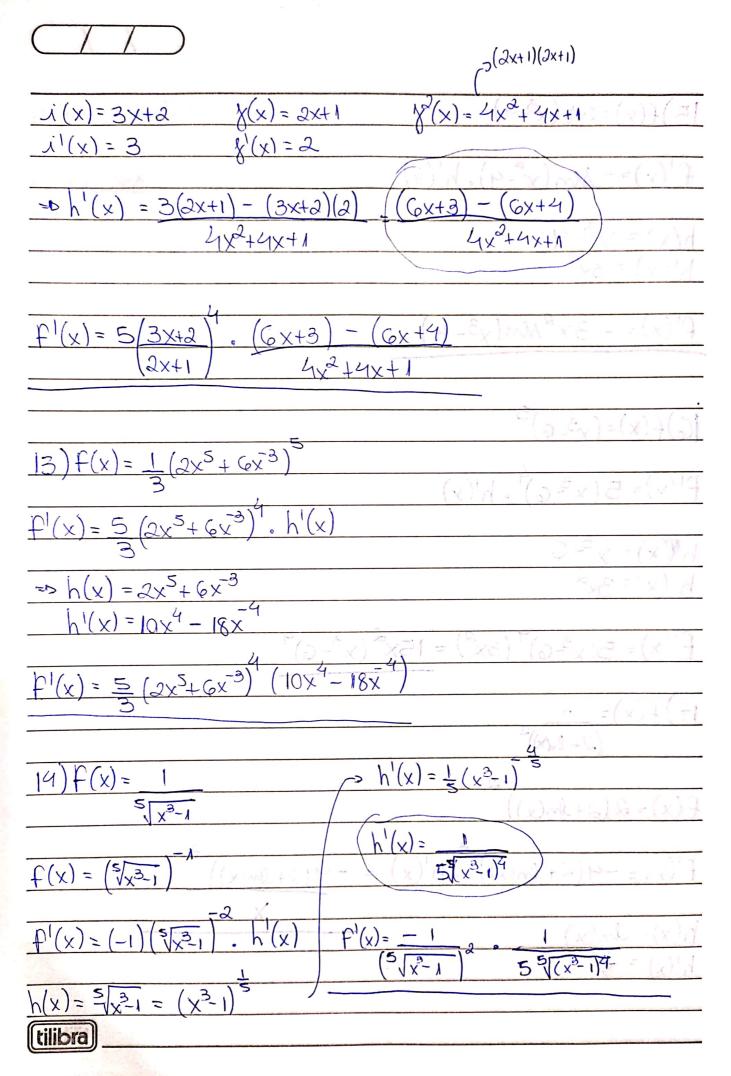
P1(x)= +(x2+5x+2)6. (2x+5) - (14x+35)(x2+5x+2)

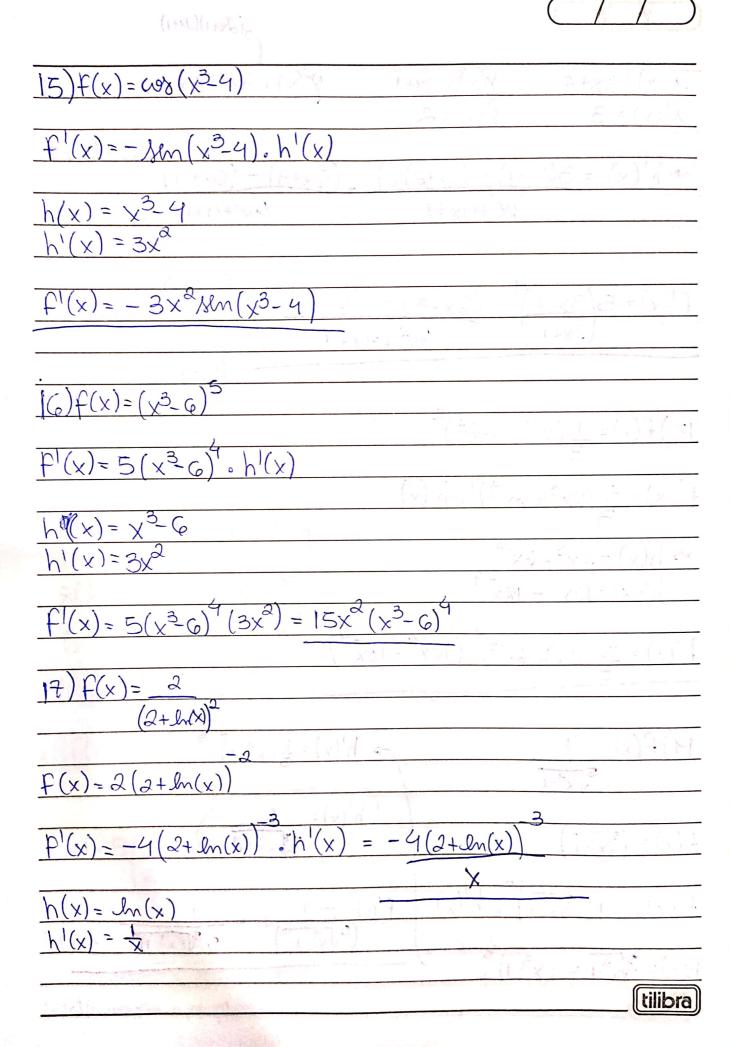
(2)f(x)=

h(x)= 3x+2 => h(x)=i(x) => h'(x)=i'(x) x(x)-i(x) x'(x)

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$18)F(x) = 3x^2 + 5$
E'(x) - 6x
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