Analini Matembier I

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$$\lim_{x \to 0} \frac{\lambda \ln(\sqrt{3}x^{2}) - 3x^{2} - \ln(\ln(x))}{x \cdot \ln(x)} = 0$$

$$\lim_{x \to 0} \left(\frac{x^{2} - x^{2}}{3} \right) - \frac{3}{2} - \left(\frac{x^{2} - (x^{2})^{2}}{2} \right) \qquad 3x^{2} - x^{2}$$

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$$\lim_{x \to 0} \left(\frac{x^{2} - x^{2}}{3} \right) - \frac{3}{2} - \left(\frac{x^{2} - (x^{2})^{2}}{2} \right) \qquad 4x^{2} + \frac{x^{2}}{2}$$

$$\lim_{x \to 0} \left(\frac{x^{2} - x^{2}}{3} \right) - \frac{x^{2} + x^{2}}{2} + \frac{x^{2}}{8} \qquad 6x^{2} - \frac{x^{2} + x^{2}}{2}$$

$$\lim_{x \to 0} \left(\frac{x^{2} - x^{2} + x^{2}}{3} \right) - \frac{x^{2} + x^{2} + x^{2}}{2} + \frac{x^{2}}{8} \qquad 6x^{2} - \frac{x^{2} + x^{2}}{2}$$

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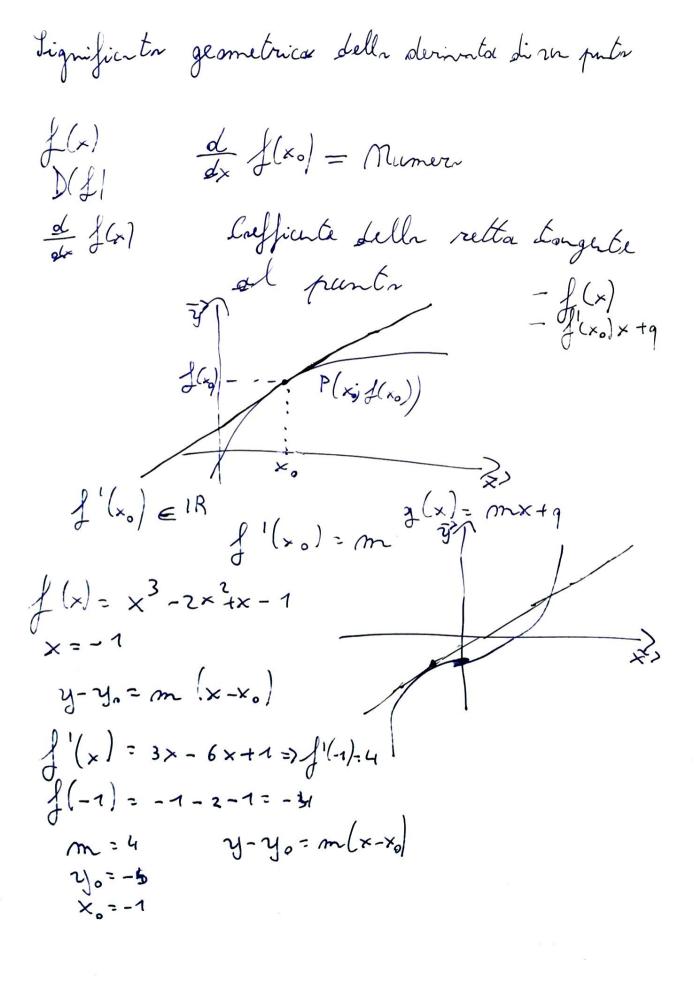
$$\lim_{x \to 0} \left(\frac{x^{2} - x^{2} + x^{2}}{3} \right) - \frac{x^{2} + x^{2} + x^{2}}{2} \qquad 6x^{2} - \frac{x^{2} + x^{2}}{2}$$

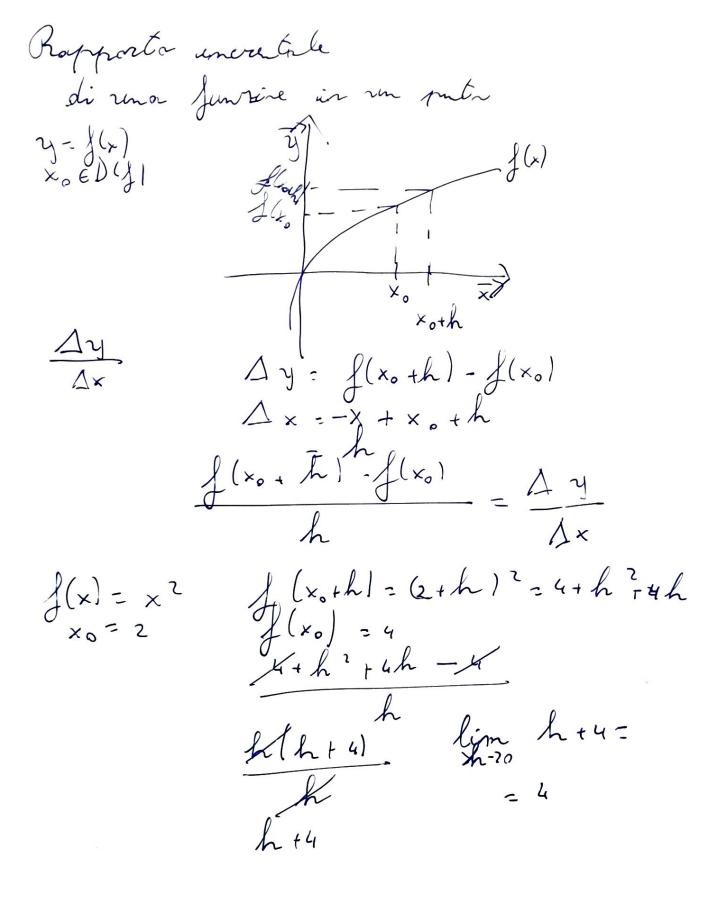
$$\lim_{x \to 0} \left(\frac{x^{2} - x^{2} + x^{2}}{3} \right) - \frac{x^{2} + x^{2}}{2} + \frac{x^{2}}{8} \qquad 6x^{2} - \frac{x^{2} + x^{2}}{2}$$

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$$\lim_{x \to 0} \left(\frac{x^{2} - x^{2} + x^{2}}{3} \right) - \frac{x^{2} + x^{2}}{2} + \frac{x^{2}}{8} \qquad 6x^{2} - \frac{x^{2} + x^{2}}{2}$$

$$\lim_{x \to 0} \left(\frac{x^{2} - x^{2} + x^{2}}{3} \right) - \frac{x^{2} + x^{2}}{2} + \frac{x^{2}}{8} \qquad 6x^{2} - \frac{x^{2} + x^{2}}{2} \qquad 6x^{2} - \frac{x^{2} + x^{2}}{3} \qquad 7x^{2} + \frac{x^{2}}{3} \qquad 7x^{2} + \frac{x^{2}}{$$





1(x) = x2 f'(x)= lin f(x+h!-f(r) lin (x+h)2-x2 -lix/+h2+2hx-x2 - lin h'+2hx
- lin h(h+2x)
- lin h(h+2x) shin htzx lin exeh-ex lin e* (eh-1) i eh

d me(p) z sm(x) re(a+b/= sen(a) +sm(b) = lin ren(x+hl-ren(x) h-ro
= lim 2 ren(x) ren(h) - ren(x) h-ro t run (b). son(a) -lin sen(x) son(h) + re(h) · son(x) - sen(x) -lin redson(h) + cor(x) reds lim redx = 1

-lin redson(h) + cor(x) - redx x = 1

-lin redson(h) + cor(x) - redx -lin ren(x) son(h)-ren(x) - lin ren(x)(sn(h)-1) + cn(x)
- lin sn(h)-1 + cn(x)
- lin sn(h)-1 + cn(x) cm(x) +1-1 = li~. = sm(x)