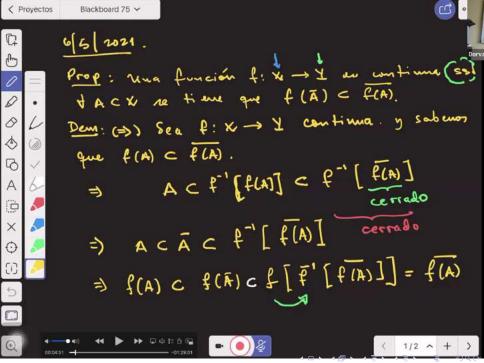
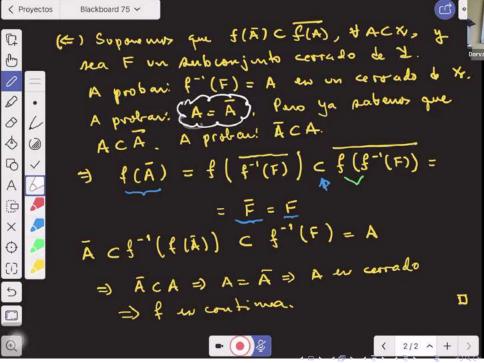
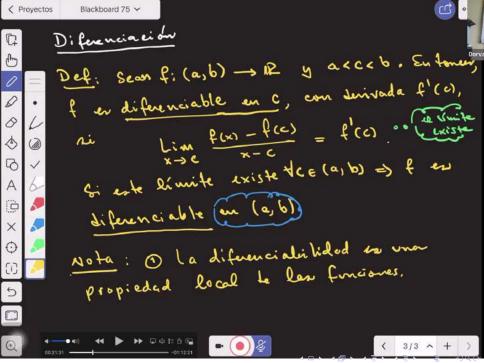
Clase de Diferenciación - Análisis de Variable Real 1

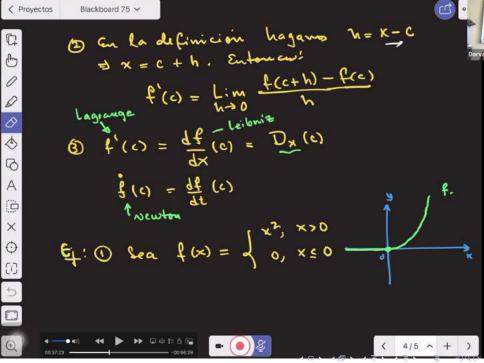
Rudik Rompich

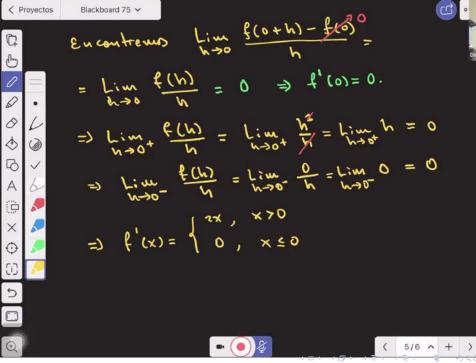
May 29, 2021











Proyectos Blackboard 75
$$\vee$$

2) Sea $f: \mathbb{R} \to \mathbb{R}$ $g: \mathbb{R} \to \mathbb{R}$ $g:$

Reprojectors

Blackboard 75
$$\vee$$

Lim $\frac{\sqrt{h}}{h} = \lim_{k \to 0} \frac{1}{h^2}$, all no existe

 $\frac{1}{h} = \lim_{k \to 0} \frac{1}{h^2}$, all no existe

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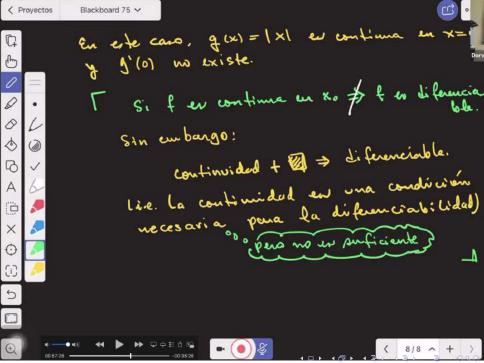
 $\frac{1}{h} = \lim_{k \to 0} \frac{1}{h^2}$, and no existe

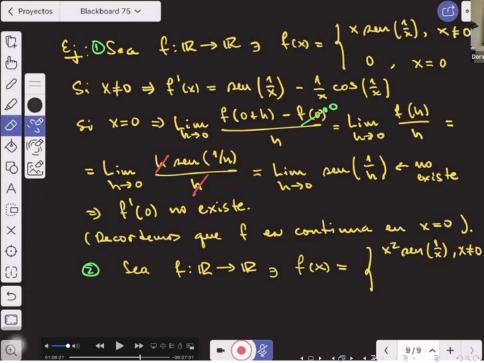
 $\frac{1}{h} = \lim_{k \to 0} \frac{1}{h^2}$, and no existe

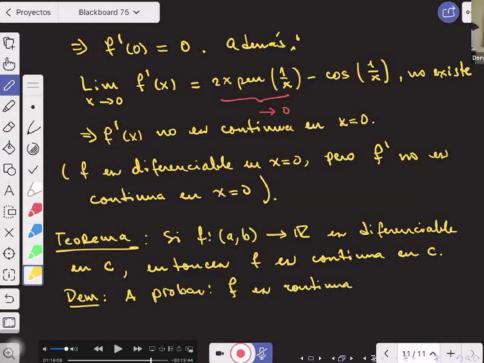
 $\frac{1}{h} = \lim_{k \to 0} \frac{1}{h^2}$, and no existe

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Projectos Blackboard 75
$$\checkmark$$

i.e. A proteon: Lim $f(x) = f(c)$

$$\Rightarrow \lim_{x \to c} f(x) - f(c) = 0$$

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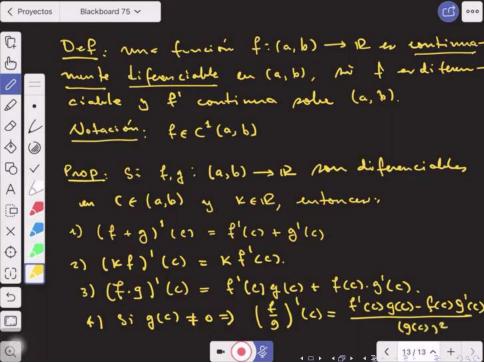
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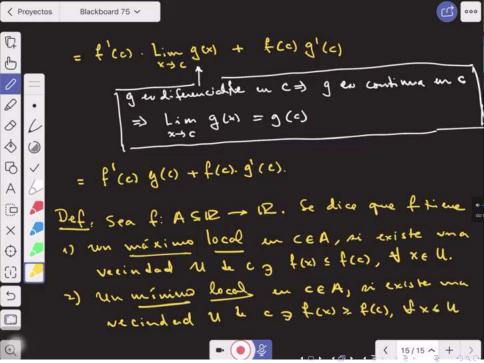
$$\Rightarrow \lim_{x \to c} f(x) - f(c) = 0$$

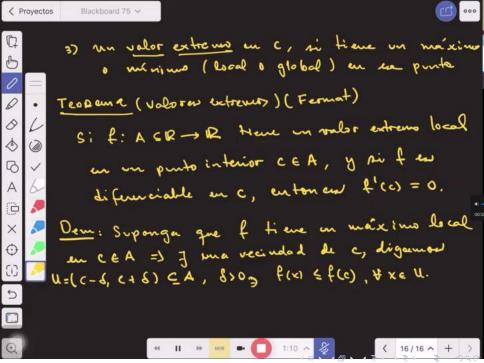
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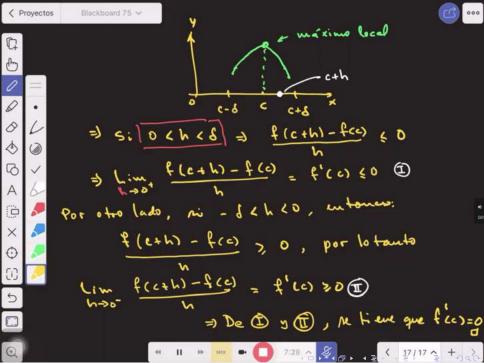


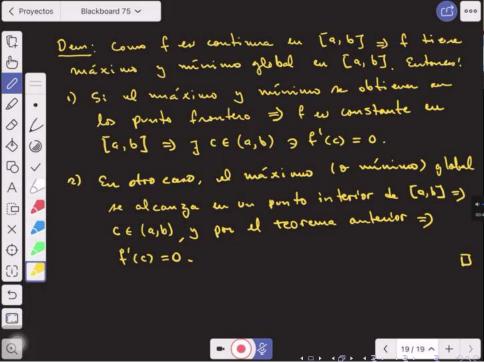
Reprojectes Blackboard 75
$$\times$$

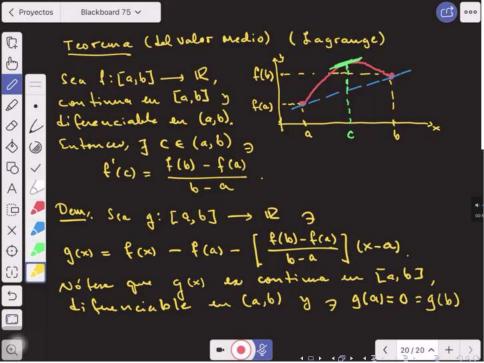
Blackboard 75 \times

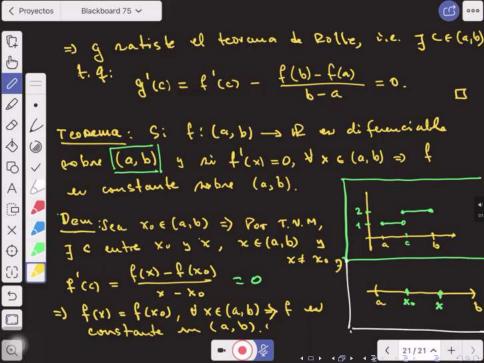


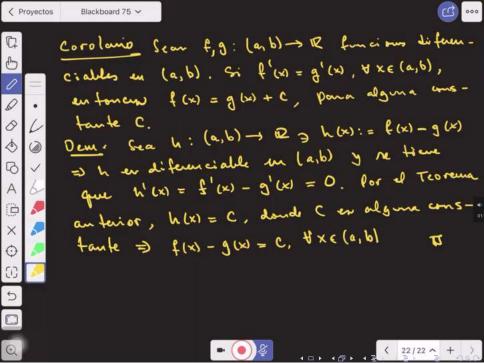


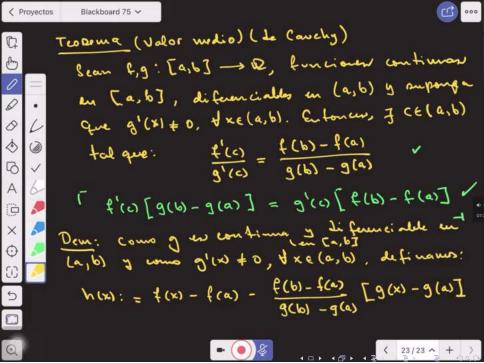


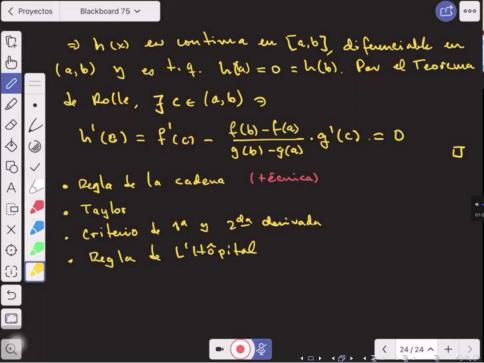


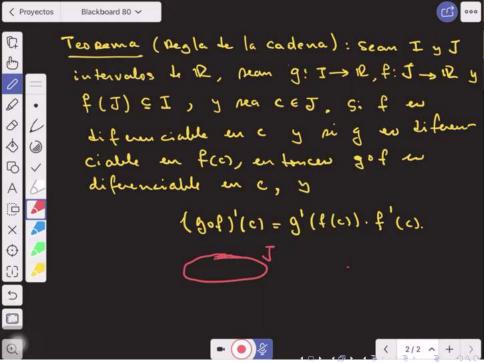


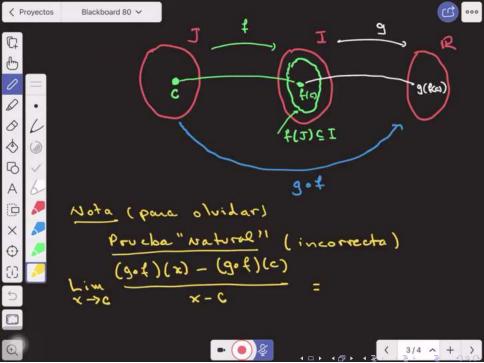


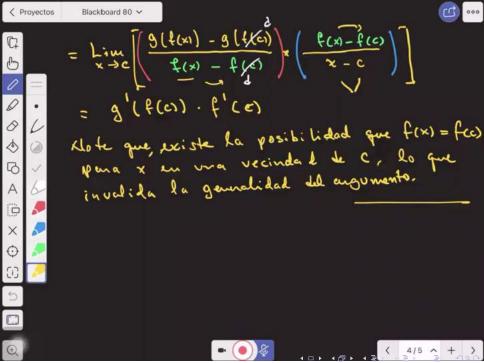


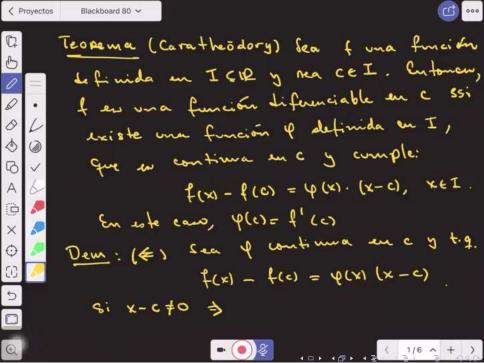




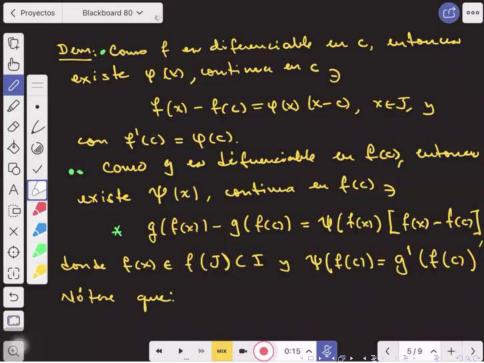


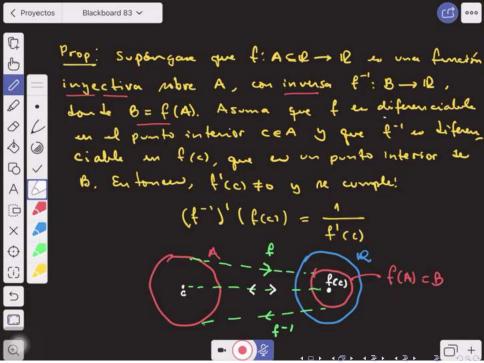


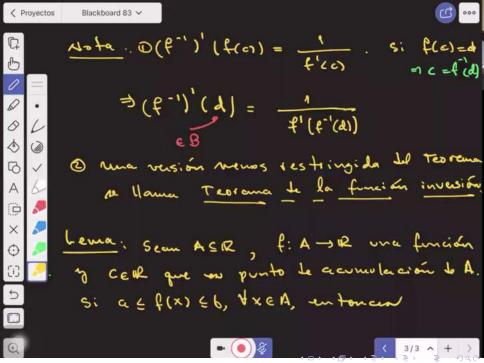


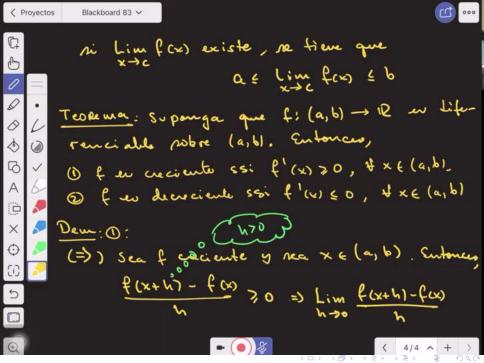


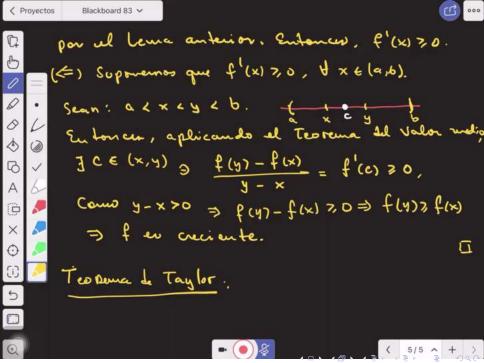
< Provectos Blackboard 80 > $\Rightarrow \varphi(x) = \frac{f(x) - f(c)}{x - c} \Rightarrow \lim_{x \to c} \varphi(x) =$ = Lim f(x) - f(c) = . p(c) =) q(c)=f(c) que f'en diferenciable en e \$(x)-f(c) como f en diferencialle en cos f en => Lim ((c) = f'co) continua un c



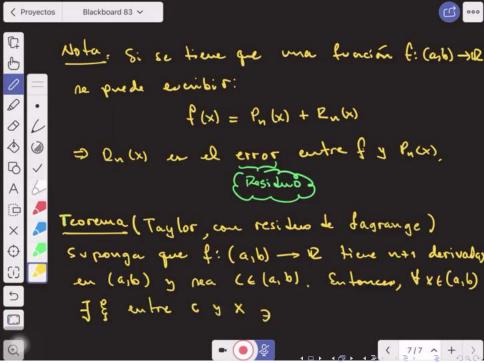








Proyectos Blackboard 83 V Def: Sea $f:(a,b) \rightarrow R$ y suporga que f tiere n derivadas: f', f", ..., f(n): (a,b) >12 El polinomio de Taylor le grado n de f un c ∈ (a, b) eu: Pn (x): = f(c) + f(c) (x-c) + 1 f(c) (x-c)2+... = } ax (x-c), donde: coef. Le Taylor - ax = f(e)



< Proyectos Blackboard 83 > f (x) = f(c) + 0 restricción de Taylor).

$$\Rightarrow d_{1}(t) = - d_{1}(t) - d_{n}(t) \cdot (x^{2}t) + d_{1}(t) \cdot (x^{2$$

$$d_{1}(t) = -\frac{n_{1}}{1} f_{(n+t)}(x-t)_{n} \frac{n_{1}}{1} (x-t)_{n-1}$$

$$\frac{n_{1}}{1} (x-t)_{n} + \frac{n_{1}}{1} (x-t)_{n} + \frac{n_{2}}{1} (x-t)_{n} + \frac{n_{3}}{1} (x-t)_{n} + \frac{n_{3}$$



Considue, where, la función:

$$h(t) = g(t) - \left(\frac{x-t}{x-c}\right)^{n+1}g(c)$$

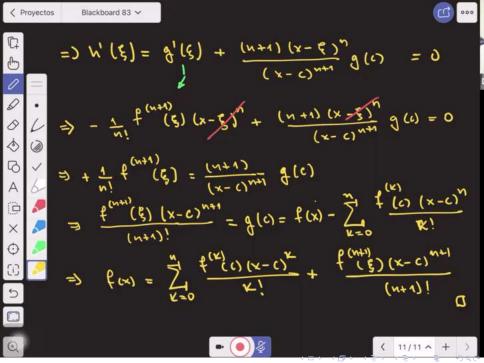
$$h(t) = g(t) - g(t) = 0$$

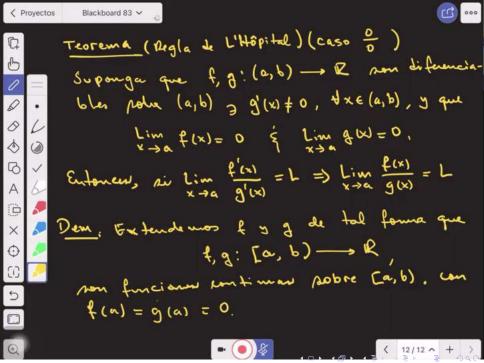
$$h(x) = g(x) - g(t) = 0$$

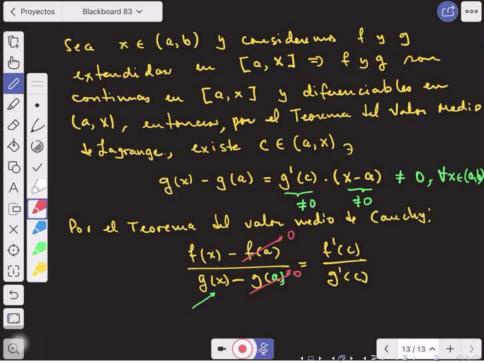
$$h(x) = g(x) - 0 = 0$$

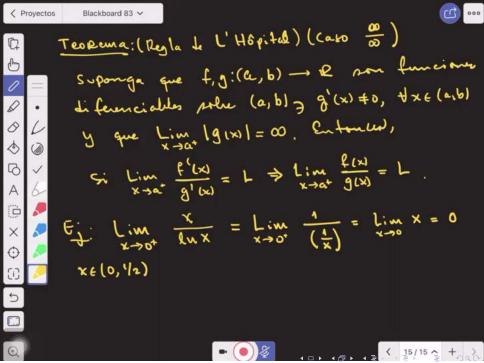
$$h(x) = g(x) - g(x) = 0$$

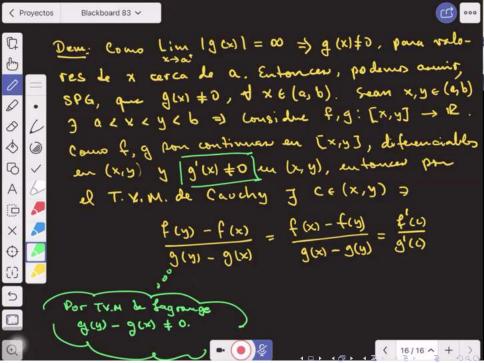
$$h(x) = g(x) =$$

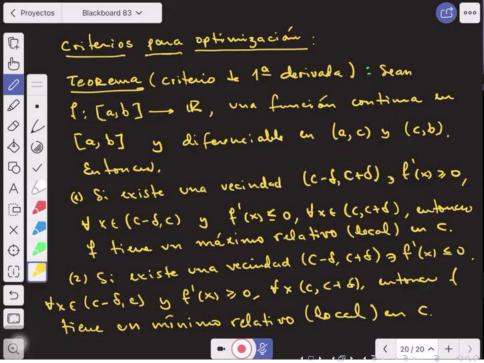


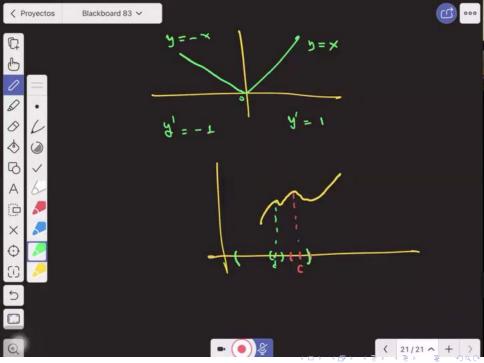


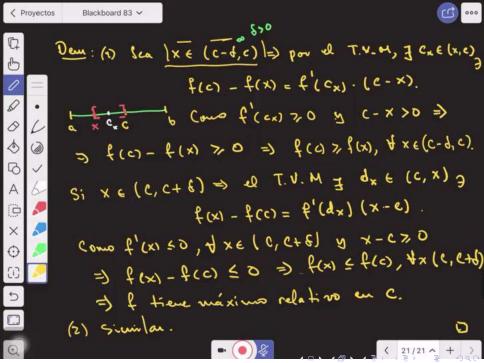


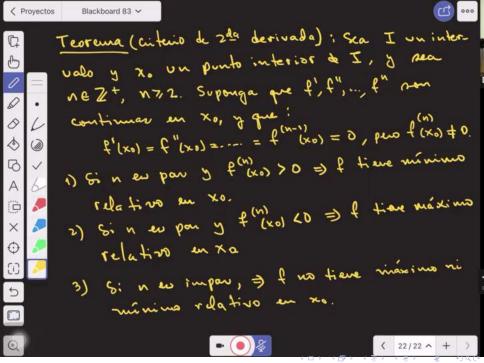


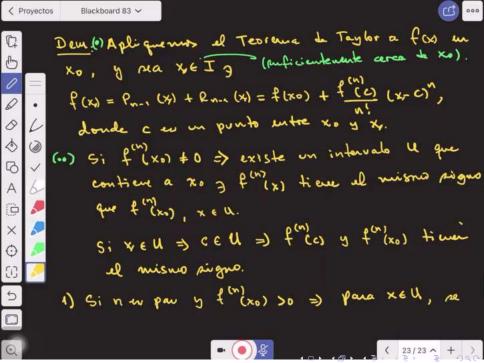


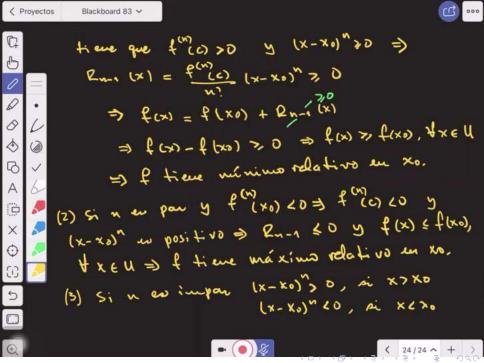


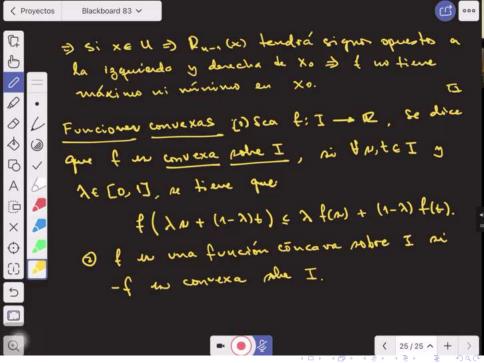


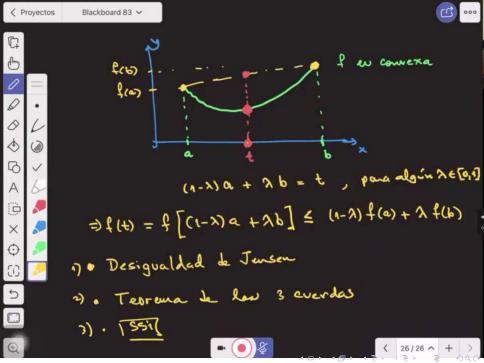


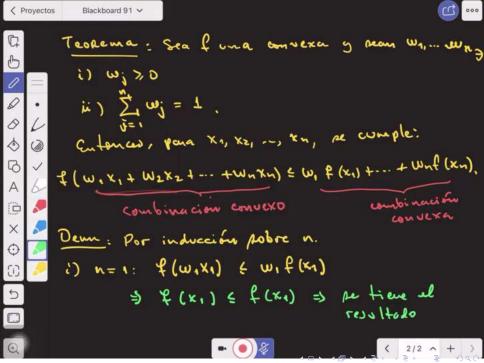


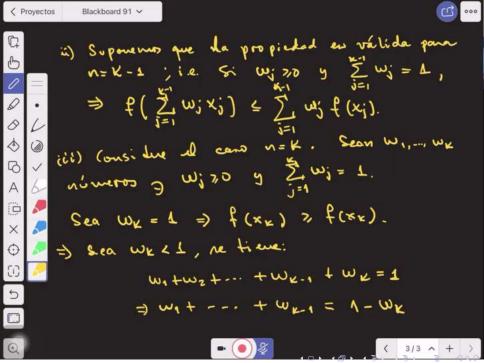


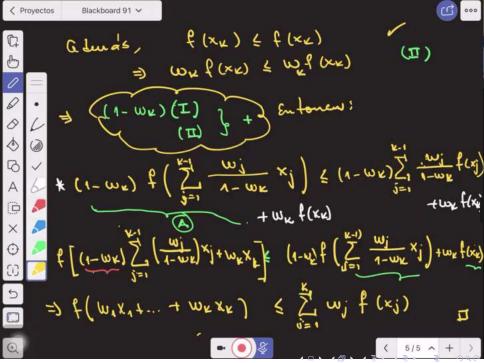


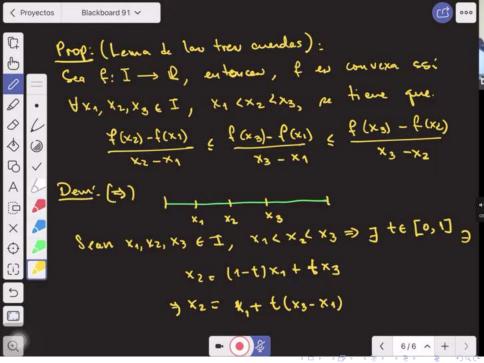


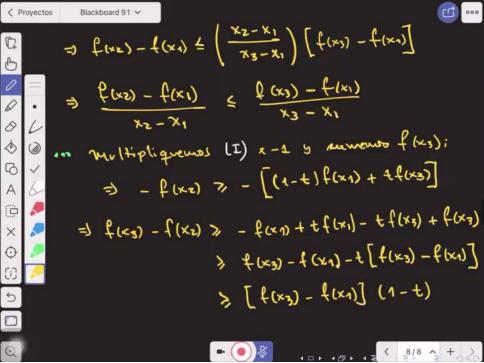












< Proyectos

Blackboard 91 ~

