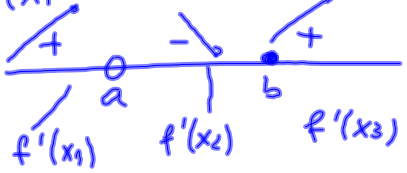
MONOTONIA Y EXT. RELATIVOS (f')

$D(f)$

$f'(x) \to D(f')$

$D(f \cap f') \to$ Ptos malos $\circ$ a

$f'(x)=0$ $\bullet$ b



Crec $(-\infty, a) \cup (b, +\infty)$

Dec (a, b)

$\nexists$ Max

Min $(b, f(b))$

ene 25-13:09

CURVATURA Y PTOS INF. (f'')

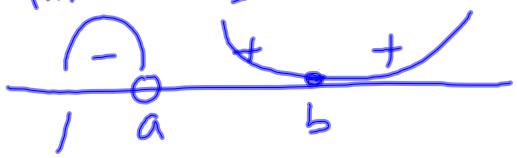
$D(f)$

$f'(x) \Rightarrow D(f')$

$f''(x) \to D(f'')$

$D(f \cap f' \cap f'') \to$ Malos $\circ$ a

$f''(x)=0$ $\bullet$ b



Concava $(-\infty, a)$

Convexa $(a, +\infty)$

$\nexists$ PI

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$y = x^3 - 3x + 4$

MONOT. Y EXTREMOS

$D = \mathbb{R}$

$f'(x) = 3x^2 - 3$ $\begin{cases} D(f') = \mathbb{R} \\ f'(x) = 0 \quad x = \pm 1 \end{cases}$ $\Big]$ I



Crec $(-\infty, -1) \cup (1, \infty)$

Dec $(-1, 1)$

Max $(-1, f(-1)) = (-1, 6)$

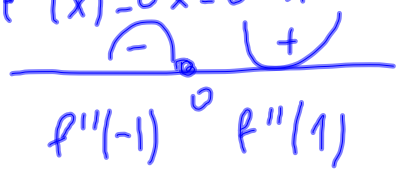
Min $(1, f(1)) = (1, 2)$

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CURV Y PI

$D(f \cap f' \cap f'') = \mathbb{R}$

$f''(x) = 6x = 0 \quad x = 0$



Concava $(-\infty, 0)$

Convexa $(0, \infty)$

PI $(0, f(0)) = (0, 4)$

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PAG 304 (TODO)

(6) M.(E), C.(PI) e) f)

(7) a) (8) d) f)

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ene 25-13:15