La sublevel set vi dus id - com quasiconvex de l'évi = Ulime convex de l'evi = Ulime convex de l'evi : = Ulime convex : immi convex la superlevel sotrons

 $f(\infty) = e^{\infty} - 1 \longrightarrow f(\infty) = e^{\infty} \longrightarrow f'(\infty) = e^{\infty} = 70$  = > strictly convex, quasiconvex  $= S_{\alpha} = \int \infty \in dom f \mid -(e^{\infty} - 1) \leq x$   $= \int \infty \in dom f \mid 1 - \alpha \in \infty$   $= \int \infty \in dom f \mid x \mid -\alpha \in \infty$   $= \int \infty \in dom f \mid x \mid -\alpha \in \infty$   $= \int \infty \in dom f \mid x \mid -\alpha \in \infty$   $= \int \infty \in dom f \mid x \mid -\alpha \in \infty$   $= \int \infty \in dom f \mid x \mid -\alpha \in \infty$   $= \int \infty \in dom f \mid x \mid -\alpha \in \infty$   $= \int \infty \in dom f \mid x \mid -\alpha \in \infty$   $= \int \infty \in dom f \mid x \mid -\alpha \in \infty$   $= \int \infty \in dom f \mid x \mid -\alpha \in \infty$   $= \int \infty \in dom f \mid x \mid -\alpha \in \infty$   $= \int \infty \in dom f \mid x \mid -\alpha \in \infty$   $= \int \infty \in dom f \mid x \mid -\alpha \in \infty$   $= \int \infty \in dom f \mid x \mid -\alpha \in \infty$   $= \int \infty \in dom f \mid x \mid -\alpha \in \infty$   $= \int \infty \in dom f \mid x \mid -\alpha \in \infty$   $= \int \infty \in dom f \mid x \mid -\alpha \in \infty$   $= \int \infty \in dom f \mid x \mid -\alpha \in \infty$   $= \int \infty \in dom f \mid x \mid -\alpha \in \infty$   $= \int \infty \in dom f \mid x \mid -\alpha \in \infty$   $= \int \cos \alpha \cdot (\alpha - \alpha) \cdot (\alpha - \alpha)$   $= \int \cos \alpha \cdot (\alpha - \alpha) \cdot (\alpha - \alpha)$   $= \int \cos \alpha \cdot (\alpha - \alpha) \cdot ($ 

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· ¿ Concave · f'(x) · rest f(x)  $\nabla^{2}f_{(0x)} = \begin{bmatrix} 0 & 1 \\ 1 & 0 \end{bmatrix} \Rightarrow \nabla^{2}f_{(0x)} \neq 0$   $\nabla^{2}f_{(0x)} \neq 0$   $\nabla^{2}f_{(0x)}$ , Juasiconave of  $\Delta_3 f(x^{1}, x^{5}) = \frac{x^{1} x^{5}}{\left[ |x^{1} x^{5}| |x^{5}| \right]} = \frac{x^{1} x^{5}}{\left[ |x^{5}| |x^{5}| \right]} = \frac{x^{1} x^{5}}{\left[ |x^{5}| |x^{5}| \right]}$ (C) En trasponde à courèr e formas Ou quasiconcare y ( , cimi concare , TECXIXZ) - - is  $\begin{array}{lll}
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\nabla^2 f_{121,122} &= \begin{bmatrix} 0 & -1/2\frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2}$$

$$\nabla^{2} f_{(21,182)} = \begin{bmatrix} \alpha(\alpha-1) \times 1^{1/2} \times 2^{1/4} & \alpha(1-\alpha) \times 1^{1/2} \times 2^{1/4} \\ \alpha(1-\alpha) \times 1^{1/2} \times 2^{1/4} & (1-\alpha)(-\alpha) \times 1^{1/2} \times 2^{1/4} \\ = \alpha(1-\alpha) \times 1^{1/2} \times 2^{1/4} & \begin{bmatrix} 1/2 & 1/2 \\ 1/2 & 2 \end{bmatrix} & \begin{cases} 1/2 & 1/2 \\ 1/2 & 2 \end{bmatrix} \\ = -\alpha(1-\alpha) \times 1^{1/2} \times 2^{1/4} & \begin{bmatrix} 1/2 & 1/2 \\ 1/2 & 2 \end{bmatrix} & \begin{cases} 1/2 & 1/2 \\ 1/2 & 2 \end{bmatrix} \\ = -\alpha(1-\alpha) \times 1^{1/2} \times 2^{1/4} & \begin{bmatrix} 1/2 & 1/2 \\ 1/2 & 2 \end{bmatrix} & \begin{cases} 1/2 & 1/2 \\ 1/2 & 2 \end{bmatrix} & \begin{cases} 1/2 & 1/2 \\ 1/2 & 2 \end{bmatrix} \\ = -\alpha(1-\alpha) \times 1^{1/2} \times 2^{1/4} & \begin{cases} 1/2 & 1/2 \\ 1/2 & 2 \end{bmatrix} & \begin{cases} 1/2$$

VIXV & Sn => (Verily) Cul convex, Cul linear . tr(VXV) Curlanux ju La glicilionité point wise su premum () =) \* Zwl convexe sup { tr(v xv) | ver nxlc, v v = I} (2) i = xi(X) = sup [tr(V[XV) | Ve Rnxk, V[V=]] · Coul convex \( \lambda \lambda i \( \times \) \( \lambda \) Coul concave (ou Coul linear of (V/xV) post circles cours (b) Em) concaver inf [tr(VXV) | VeRnxk, det(VV=1) xte => \* Coulconcave in finf [tr(vTXV) | ve IR", det(VTy=1] (T) \(\int\) = \(\int\) \(\tau\) \(\tau Com/ concaver ( The x' (x)) is iof { Ticrxv); VolRnxk, VTV= ]} concave and concave at 1/10/01/21/2 point wise infimum

$$= 7 \qquad \text{ind coneave } c \prod_{i=n-k+1}^{N} i(x)$$

$$= 7 \qquad \text{lag } \prod_{i=n-k+1}^{N} i(x) \Rightarrow 1 \qquad \text{coneave}$$

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$$c \prod_{i=n-k+1}^{N} log h'(x) \Rightarrow 1 \qquad \text{coneav$$

 $g^{\dagger}(y,s) = \sup \left( y^{\overline{y}}x + st - tf(x/t) \right)$   $= H \in dmf, t > 0$ 

= 
$$\sup \sup (t(y^T(x/t) + s - f(x/t))$$
  
 $t>0$  x/t edom f

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$$sup$$
 t ( $s + sup$  ( $y^{T}(xyt) - f(xyt)$ )  
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$$= \sup_{t \to 0} t(s + f^*(y))$$

$$= \begin{cases} 0 & s + f^*(y) < 0 \\ \infty & o, \omega, \end{cases}$$

is a position (e) where 
$$\frac{2}{2}$$
 Uhrows is the second with the function of the function  $\frac{1}{2}$  and convex is a sufficient function  $\frac{1}{2}$  and convex is a sufficient function on the convex is a sufficient function on the convex is a sufficient function in the convex is  $\frac{1}{2}$  and con

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 $\int_{0}^{\infty} = \left[ \begin{array}{c} 0 \\ 3 \\ 0 \end{array} \right] = 2 \operatorname{median}(x) = 0 \quad \chi' = \left[ \begin{array}{c} 3 \\ 0 \\ 0 \end{array} \right] = 2 \operatorname{median}(x') = 0$  $x = \begin{bmatrix} -1 \\ 3 \\ 3 \end{bmatrix} = n \operatorname{median}(x) = 3 \quad x' = \begin{bmatrix} 3 \\ -1 \\ 3 \end{bmatrix} = n \operatorname{median}(x')$  = 3median  $(\frac{1}{2}x+\frac{1}{2}x')=$  median  $(\begin{bmatrix}1\\3\end{bmatrix})=1$   $\neq 3$  $2e = \begin{bmatrix} 0 \\ 4 \\ 4 \end{bmatrix} \qquad 2e' = \begin{bmatrix} 4 \\ 0 \\ 4 \end{bmatrix}$ (2c12+2c12)/2 = 2 (2c12+2c12)/2 = 2 $(\frac{1}{2}x + \frac{1}{2}x') = \begin{bmatrix} 2\\2\\4 \end{bmatrix} = x'' (x''_{11} + x''_{11})/2 = 3 \not \xi 2$ convex ()

$$x = \begin{bmatrix} 0 \\ 4 \\ 0 \end{bmatrix} (x_{[1]} + x_{[n]})/2 = 2 \quad x' = \begin{bmatrix} 0 \\ 0 \\ 4 \end{bmatrix} (x_{[1]} + x_{[n]})/2 = 2$$

$$\frac{1}{2}x + \frac{1}{2}x' = \begin{bmatrix} 0 \\ 2 \\ 2 \end{bmatrix} = x'' \quad (x''_{[1]} + x''_{[n]})/2 = 1 \implies 2$$

$$x = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix} x_{[NH]} - x_{[3NH]} = x_{[1]} - x_{[3]} = 1$$

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$$x' = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix} x'_{[NH]} - x_{[3NH]} = x_{[1]} - x_{[3]} = 1$$

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$$x = e_1 \implies \text{ Symmetric trimmed mean}(x) = 0 \qquad n = 20 \text{ pint is is } (e)$$

$$x' = e_2 \implies \text{ Symmetric trimmed mean}(x') = 0$$

$$\frac{1}{2}x + \frac{1}{2}x' = \frac{1}{2}e_1 + \frac{1}{2}e_2 = x'' \text{ Symmetric trimmed mean } (x'') = \frac{1}{34} \not = 0$$

$$x = 1 - e_1 - e_2 \implies \text{ Symmetric trimmed mean}(x) = 1$$

$$x' = 1 - e_3 \implies \text{ Symmetric trimmed mean}(x') = 1$$

$$\frac{1}{2}x + \frac{1}{2}x' = 1 - \frac{1}{2}(e_1 + e_2 + e_3) = x'' \text{ symmetric trimmed mean}(x') = \frac{31}{34} \not= 0$$

$$x = 1 - \frac{1}{2}(e_1 + e_2 + e_3) = x'' \text{ symmetric trimmed mean}(x'') = \frac{31}{34} \not= 0$$

$$x = 1 - \frac{1}{2}(e_1 + e_2 + e_3) = x'' \text{ symmetric trimmed mean}(x'') = \frac{31}{34} \not= 0$$

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$$x = 1 - \frac{1}{2}(e_1 + e_2 + e_3) = x'' \text{ symmetric trimmed mean}(x'') = \frac{31}{34} \not= 0$$

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upode. Outconvex to element of the  $\frac{9}{10}$ ; or is only (f)  $\left(\frac{1}{9\eta_{+1}} > 0\right)$ . Eucleonvex  $\frac{1}{9\eta_{+1}} = \frac{1}{9\eta_{+1}} > 20$ Ew) convex clower trimmed mean Cul conver ( - x[n] C cul conone ( x[n] (b) Zul convex ju convex zit 2 zus e zul convex ju 20[1] - we convex ( SC[1] - SC[n]

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