The Gover Conjugate of Li-normis f(y) = (0 |4|<1 otherwise : f(x) = |x|=f(y) = max xy-f(y) = max xy YER\* 14/1 Adding \_ = [ - 1 - y?  $h(x) = \max_{|y| \le 1} \sum_{i=1}^{n} |y| \le 1$ 3; =0 -9 X; = X; - \frac{\fir}\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{  $h(x) = \frac{1}{\sqrt{1+x^2}} + \sqrt{1-\frac{x^2}{1+x^2}}$ = \frac{\chi^2}{\sqrt{3+1}} + \frac{1-\chi^2}{\sqrt{1-\chi^2}} - 1  $= \frac{1}{\sqrt{x_{1}^{2}+1}} + \frac{1}{(x_{1}^{2}+1)\sqrt{1-x_{1}^{2}}} - \sqrt{(x_{1}^{2}+1)^{2}-x_{1}^{2}(x_{1}^{2}+1)}$ = \frac{\lambda''\_{1}}{\lambda''\_{1}} + \frac{\lambda''\_{2}}{\lambda''\_{1}} - \frac{1}{2} = \lambda''\_{1} + 2\lambda''\_{1} + 2\lambda''\_{1}}  $h(x) = \sum_{i=1}^{n} \sqrt{x_{i}^{2} + 1} - 1$