Dy Explain how to solve convex OP -	using the 14(T
* Used to relate constrained OP to uconstrained C	
* Let x'ER" be regular minimizer for	
* Let $x' \in \mathbb{R}^n$ be regular minimizer for (x) if regular point the gradient of min f(x) s.t $a(x) = 0$, $c(x) \ge 0$ (active constraints are linearly independent * Thun there exists a vector (x) in (x) and a vector (x) in (x) and (x)	
*Then there exists a vector 2' in R and a vector $y' \geq_e 0$ in R such	
that (1) V+(x)= (x) 1 + (x) 1 · (x) = (1)	
City Inequality	
Xi and vi are Lagrange multipliers, where y'zeo are the ktT condition. * So the only terms (1) which contributes are the	
So the only terms (1) which contributes are there can be are condition	
* So the only terms (1) which contributes are those connected to the active constitutes If OP is convex then this conditions also apply for a Global nini mizer	
(that is if fand - C are convex and acco = Axtbis affine 1:	
hese C 1 Orcar Constitution	Y solving:
Vf(x)-] (x) 1-] (x) = 0 + from (1)	1 Second order:
Ca) N=0 from (2)	· lac take the
and the system coole of	1 Hessian and see if 1 it is PD or PSD
of 29 inequalities in the nept a unknown (x, 2,0)	1 Has 20 res minimizer
KKT = Karush Kuli Tuelcer Optimization Probelm = OP	Hyle) to Strong local
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