

(lu) f(x) = Bx+=xTAx+C The new: Given a greatratic function in n variables and two parallel hyperplanes 1 ce 2 of dimesion Kan. Let the constrained stationary points of the quadratic, function in the hyperplanes 1 co 2 be X, G X2, grespectively. They, the live joining x, 4 x2 is conjugate to any line parallel to the hyperplanes, Q(X) = 1 XTAX +BX+C 7 Q(X) = A X + B JQ(XI) = AX +B  $\nabla Q(X_1) = A X_1 + B$  $\nabla Q(X_1) - \nabla Q(X_1) = A(X_1 - X_2)$   $\leq is$  a vector led to the hyperplans.

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