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1 Convex Sets, And Convex Functions Proof: Let Us Denote The Set Of All Convex Combinations Of  $p$  points Of  $S$  by  $C_p(S)$ . Then The Set Of All Possible Convex Combinations Of Points Of  $S$  Is  $C(S) := \bigcup_{p=1}^{\infty} C_p(S)$ . If  $X \in C(S)$  Then It Is A Convex Com Mar 1th, 2024  
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 9.2 Descent Methods  
 Backtracking Interpretation 465  $T F(x+tx) T =0 T 0 F(xtr )T X F(x)+ \leftarrow trf(x)Tx$  Figure 9.1 Backtracking Line Search. The Curve Shows  $F$ , restricted to the line Over Which We Search. The Lower Dashed Line Shows The Linear Extrapolation Apr 7th, 2024  
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