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 1. Contents
 1 Introduction
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 $f(x_k) + c \nabla f(x_k)^T p_k$
 Direct substitution then yields $f(x_k + c \nabla f(x_k)^T p_k) = f(x_k) + c \nabla f(x_k)^T p_k + \frac{c^2}{2} \nabla^2 f(x_k) p_k^T p_k + o(c^2)$
 Now, since $\| \nabla f(x_k) \|^2 = Q(x_k) b$, after some algebra we get $f(x_k + c \nabla f(x_k)^T p_k) = f(x_k) + c \nabla f(x_k)^T p_k + \frac{c^2}{2} \nabla^2 f(x_k) p_k^T p_k + o(c^2)$, from which the first inequality in the Goldstein conditions is evident.
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Introduction 6 2
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