Contents

ARMIJO Introduction

```
function boolean = armijo(q_eval, q_grad, p_k, a_k, c1)
```

ARMIJO Introduction

```
Returns true if Armijo conditio is met, returns false if the
    Armijo condition is not met.
q eval: function handle with respect to alpha for
           q_eval(alpha) = f_eval(x_k + alpha * p_k)
q\_grad: function handle with respect to alpha for
           q_grad(alpha) = f_grad(x_k + alpha * p_k)
      current estimate for alpha
a k:
c1:
      given parameter
     if q_eval(a_k) \le (q_eval(0) + c1*a_k*p_k'*q_grad(0))
         boolean = 1;
     else
         boolean = 0;
     end
 end
```

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