## Quadratic problem $3.0225 \times 10^{2}$ GD Is obj armijo $3.02 \times 10^{2}$ GD Is obj strong wolfe $3.0175 \times 10^{2}$ $\frac{Q}{W}$ 3.015 × 10<sup>2</sup> $\frac{Q}{W}$ 3.0125 × 10<sup>2</sup> $\frac{Q}{W}$ $3.01 \times 10^{2}$ $3.0075 \times 10^{2}$ $3.005 \times 10^{2}$ 50 100 Iteration