

Results of Gradient Descent:

Problem	Starting Point	# of Iter.	Minimizer of f	Minimum of f
Q2	$[-2,2]$	540	$\sim[1,1]$	~ 0.0

This is a massive increase in iterations compared to the Newton's methods results as shown below:

Results of Newton's Method:

Problem	Starting Point	# of Iter.	Minimizer of f	Minimum of f
Q2	$[-2,2]$	5	$[1,1]$	0.0

This is due to the zig-zagging nature of gradient descent, causing it to do lots of small micro-adjustments as it approaches the minimum.