

-3.39
1.78
10.87
-2.22
10.9
1.12
-32.1
12.5

Original  
Gradient

$sign(g_4)$							
-1	1	1	-1	1	1	-1	1

$sign(g)$

$g_4$  Let  $0 \leq l < s = 4$

$$\tilde{g}_4 = Q_4(g_4) = -38.0062 * \xi_4(|g_4|, ||g||_2) = 0$$

$$\frac{|g_i|}{||g||_2} = 0.0584, \quad \xi_4(|g_4|, ||g||_2) = \begin{cases} 0 & \text{with probability } p_i = 0.7664, \\ \frac{1}{4} & \text{with probability } 1 - p_i = 0.2336. \end{cases}$$

