10

Chosen number of there tions: 1000.

Learning rately)	W	ω_{2}
0,0001	0,049	-0,0003
0,001	0,437	-0,029
O,01	2,039	-0,769
0,1	4,663	-2,211
1 😘	7,250	-3,519
10	9,667	-4,731
100	50 1	-25

The slower the learning rate ($\eta \to 0$), the slower convergence. We would need more iterations to have a chance to get to the minimum. $\eta = 0.1$ reems to be a very good rate, because this corresponds well to the figure in/plot of $L_{smple}(\omega)$.

When the learning rate increases, the the value of ω seems to drift away from what seems to be the correct minima (which is around (-4, -2) according to the figure).