```
\begin{split} &1\text{D-Gradient-Descent}(\Theta_{\textit{init}}, \eta, f, f', \varepsilon) \\ &1 \quad \Theta^{(0)} = \Theta_{\textit{init}} \\ &2 \quad t = 0 \\ &3 \quad \text{repeat} \\ &4 \quad t = t+1 \\ &5 \quad \Theta^{(t)} = \Theta^{(t-1)} - \eta \, f'(\Theta^{(t-1)}) \\ &6 \quad \text{until} \, |f(\Theta^{(t)}) - f(\Theta^{(t-1)})| < \varepsilon \\ &7 \quad \text{return} \, \Theta^{(t)} \end{split}
```