



Figure 1: Example of a smooth convex function  $f$  defined on  $] -\frac{\eta}{2}, a[$ , satisfying  $f(r) = \frac{1}{2} - \frac{\epsilon}{2}r$  on  $] -\frac{\eta}{2}, \frac{\eta}{2}[$  and  $f(r) = a - r$  on  $] \eta, a[$ .