13. Differentiation

Exercise 13.1. Show that if f is differentiable at x_0 then f is continuous at x_0.

Exercise 13.2. Use the chain rule to compute the derivative of
$$g : [0, \infty) \to [0, \infty), \ g(x) = x^{1/n}, \ \text{with } n \in \mathbb{N}^*.$$