## Exercises 2.5

## Exercise 2.5.1

- a. Show that the logistic function  $\sigma$  satisfies the inequality  $0 < \sigma'(x) \le \frac{1}{4}$ , for all  $x \in \mathbb{R}$ .
- b. How does the inequality changes in the case of the functions  $\sigma_c$ ?

## Exercise 2.5.2