Assignment 1 to 3.2.3.3

For a machine the following data are given:

$$CI_0 := 140000$$
 Initial investment

$$n := 7$$
 Useful life in years

For the capital invested after t years the following function is valid:

$$CI(t) \coloneqq CI_0 - \frac{CI_0}{n} \cdot t \quad \text{ Capital invested}$$

The average capital invested is:

$$\mathrm{CI}_a := \frac{\displaystyle \int_0^n \mathrm{CI}(t) \; dt}{n} \qquad \text{Average capital invested}$$

Determine Cl_a in figures and in symbols.