Capital Invested with Straight-Line Depreciation (Without a Residual Value)

$CI_0 := 100$ Initial investment

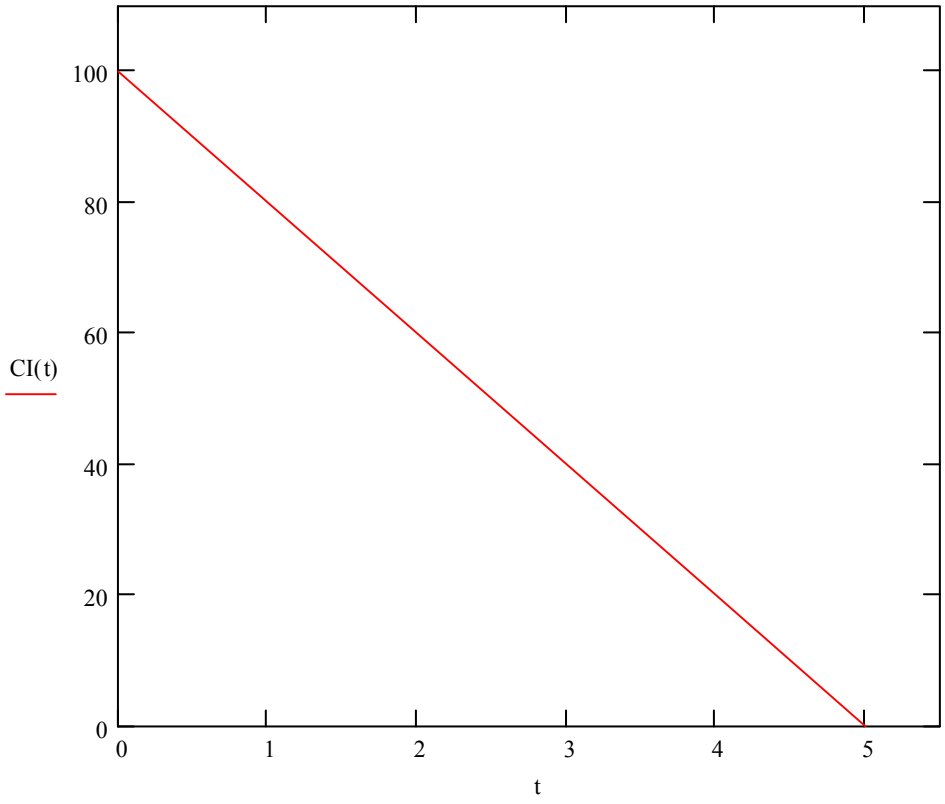
$n := 5$ Useful life

$t := 0 .. n$ Time

$CI(t) := CI_0 - \frac{CI_0}{n} \cdot t$ Capital invested

$CI(t) =$

100
80
60
40
20
0



$CI_a := \frac{\int_0^n CI(t)\, dt}{n}$ Average capital invested

$CI_a := \frac{CI_0}{2}$

$CI_a = 50$