For depreciation based on present values with depreciation charges independent of each other, the following data are given:

$CI_0 := 789456.00$ Initial investment

$n := 5$ Useful life

$PI_0 := 101$ Price index at the time of purchase

$PI_1 := 103$ Price index at the time of the first depreciation

$PI_2 := 106$ Price index at the time of the second depreciation

$PI_3 := 110$ Price index at the time of the third depreciation

$PI_4 := 112$ Price index at the time of the fourth depreciation

$PI_5 := 115$ Price index at the time of the fifth depreciation

Which is the depreciation charge at the end of each year, if straight-line depreciation is applied? For doing this, no residual value at the end of useful life is taken into account.

$$Depreciation1 := \frac{PI_1}{PI_0} \cdot \frac{CI_0}{n}$$

$Depreciation1 = 161017.76$

$$Depreciation2 := \frac{PI_2}{PI_0} \cdot \frac{CI_0}{n}$$

$Depreciation2 = 165707.60$

$$Depreciation3 := \frac{PI_3}{PI_0} \cdot \frac{CI_0}{n}$$

$Depreciation3 = 171960.71$

$$Depreciation4 := \frac{PI_4}{PI_0} \cdot \frac{CI_0}{n}$$

$Depreciation4 = 175087.27$

$$Depreciation5 := \frac{PI_5}{PI_0} \cdot \frac{CI_0}{n}$$

$Depreciation5 = 179777.11$