stream of income/constant rate $I(t) = 2000$ dollars/year / annual interest rate $r = 0,12$

$\Longrightarrow$ present value of total income during next 5 years $\dfrac{2000}{0,12}\left(1 - e^{-0,6}\right)$

annual income rate $I(t)$

$$\text{total income } \int_{dt}^{0|T} I(t)$$

$$\text{present value } \int_{dt}^{0|T} I(t)\, e^{-rt}$$

$$2000 \int_{dt}^{0|5} e^{-0,12t} = 2000 \frac{e^{-0,12t}}{-0,12} \Big|_0^5 = 2000 \left(\frac{e^{-0,6}}{-0,12} - \frac{1}{-0,12} \right) = \frac{2000}{0,12}\left(1 - e^{-0,6}\right)$$