

$$\lambda := 5.0 \cdot 10^{-5}$$

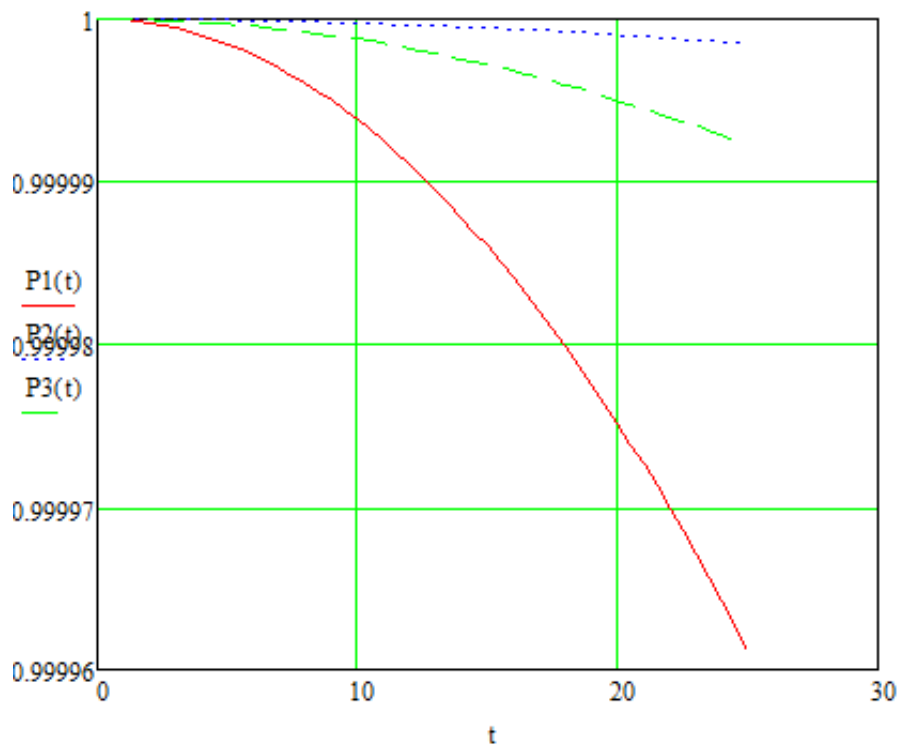
$$t := 0, 0.5.. 25$$

$$P(t) := e^{-\lambda \cdot t}$$

$$P1(t) := 1 - \left(1 - P(t) \cdot P(t)^4\right)^2$$

$$P2(t) := \left[1 - (1 - P(t))^2\right] \cdot \left[\sum_{i=4}^8 \left[\text{combin}(8, i) \cdot P(t)^i (1 - P(t))^{8-i}\right]\right]$$

$$P3(t) := \left[1 - (1 - P(t))^2\right] \cdot \prod_{i=1}^4 \left[1 - (1 - P(t))^2\right]$$



$$\int_0^{\infty} P2(t) dt \rightarrow 14444.4444444444444444$$

$$\int_0^{\infty} P1(t) dt \rightarrow 6000.0$$

$$\int_0^{\infty} P3(t) dt \rightarrow 10126.984126984126984$$