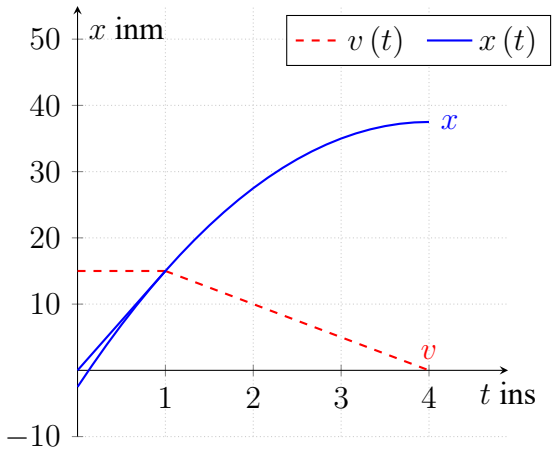
# 12. Bremsvorgang an einer Ampel




a)

$$v(t) = \begin{cases} 15 & \text{für } 0 \le t < 1, \\ -5t + 20 & \text{für } 1 \le t \le 4. \end{cases}$$

b)

$$x(t) = \begin{cases} 15t & \text{für } 0 \le t < 1, \\ -2.5t^2 + 20t - 2.5 & \text{für } 1 \le t \le 4. \end{cases}$$

c) $t_2 = \underline{\underline{4\text{s}}}; \quad x_2 = \underline{\underline{37.5\text{m}}}$