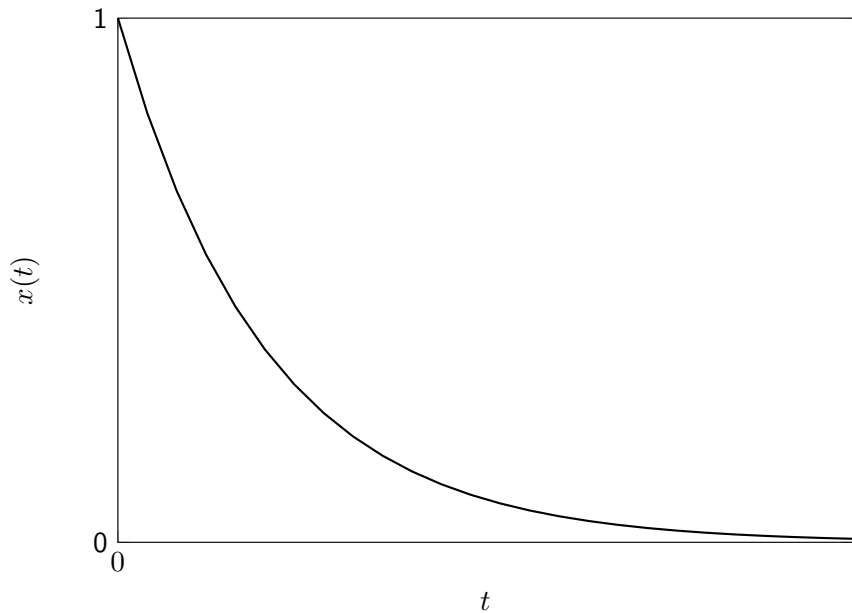
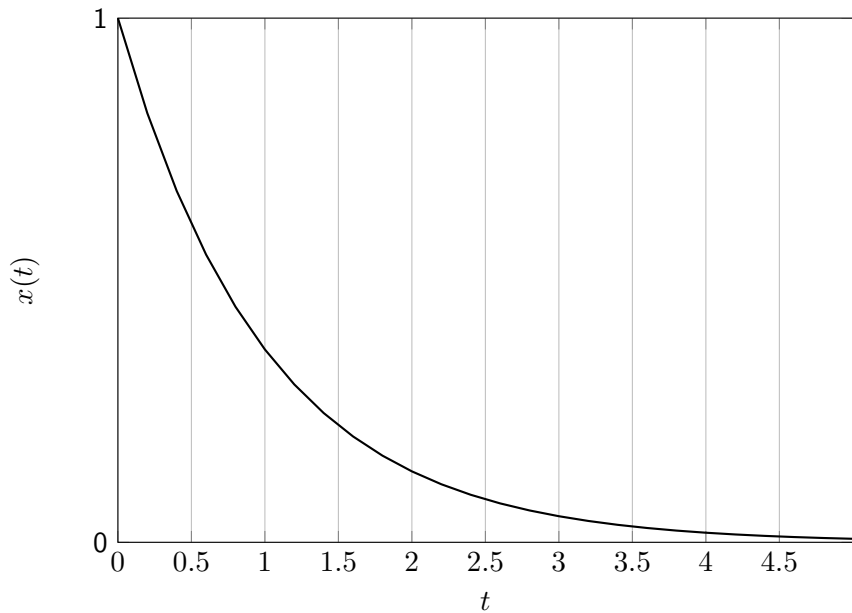


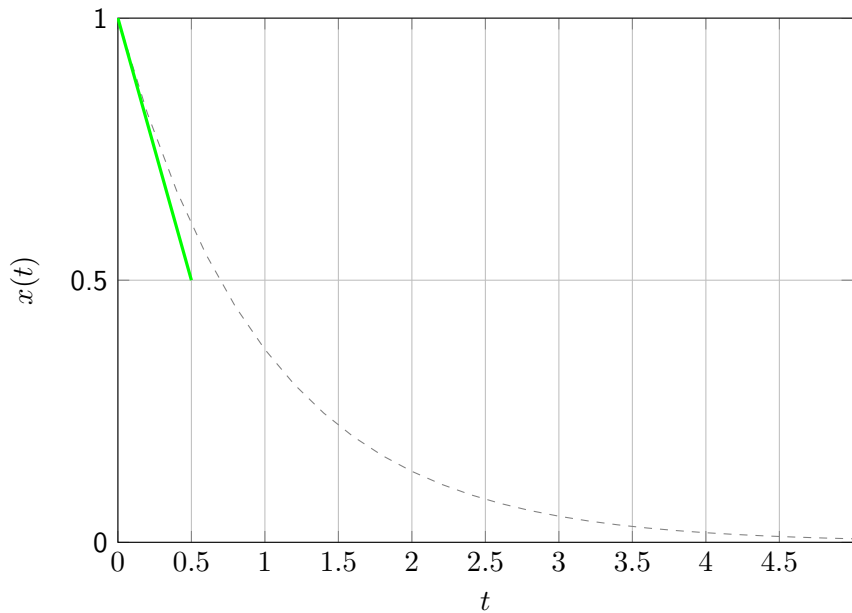
euler,ex



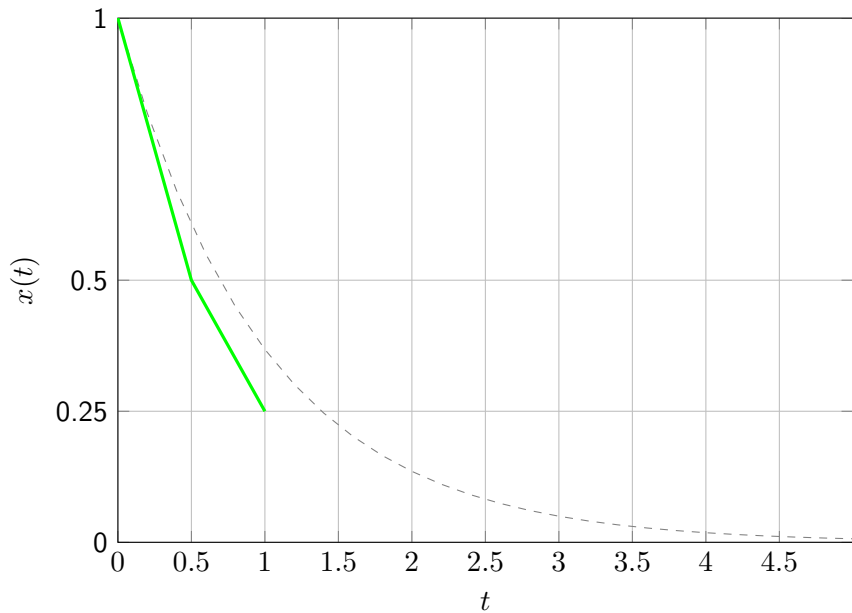
euler,ex



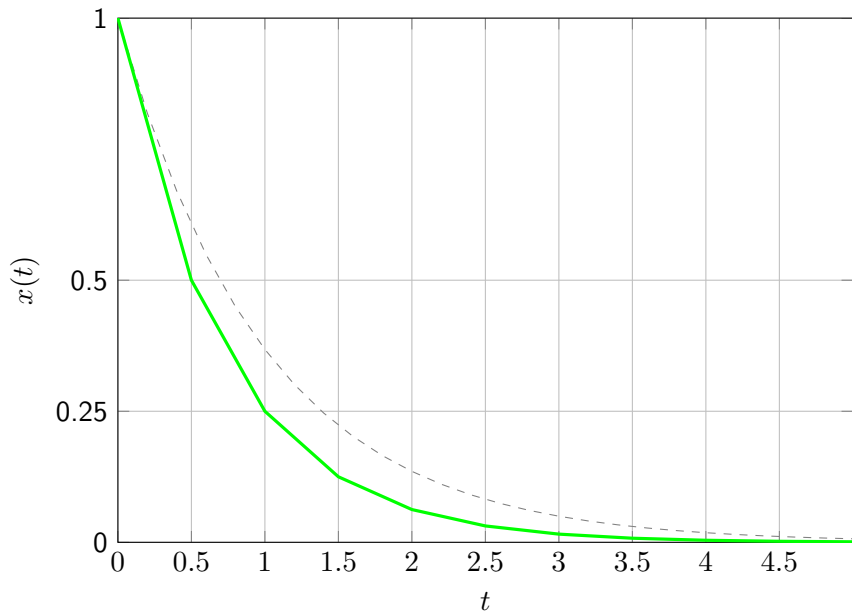
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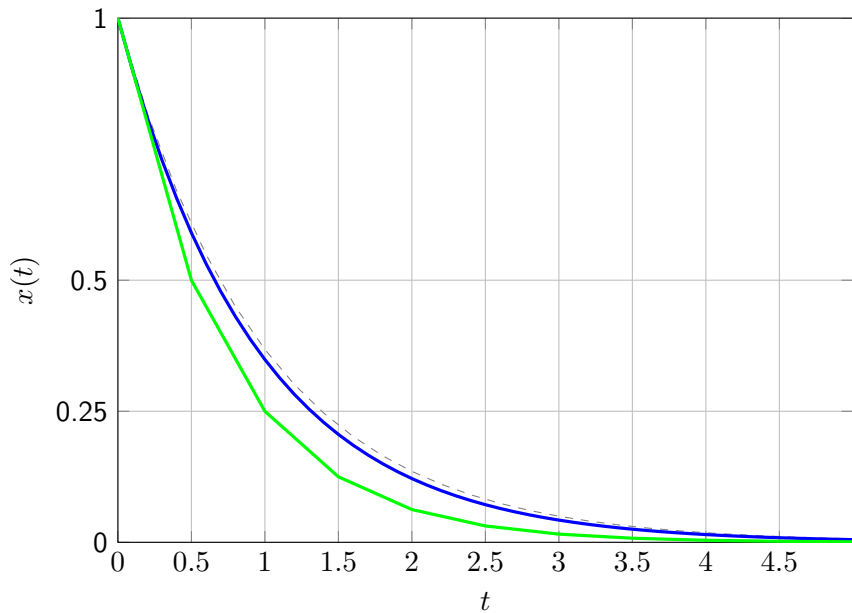
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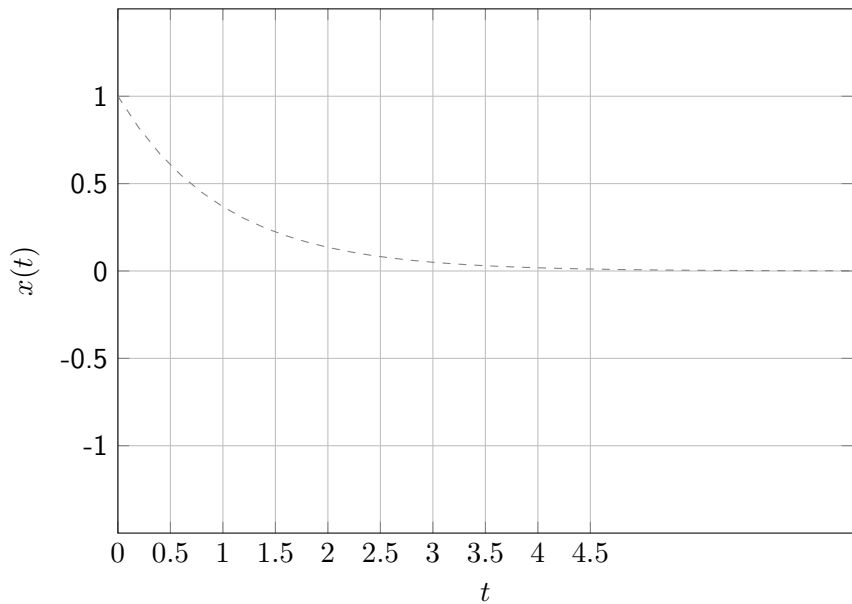
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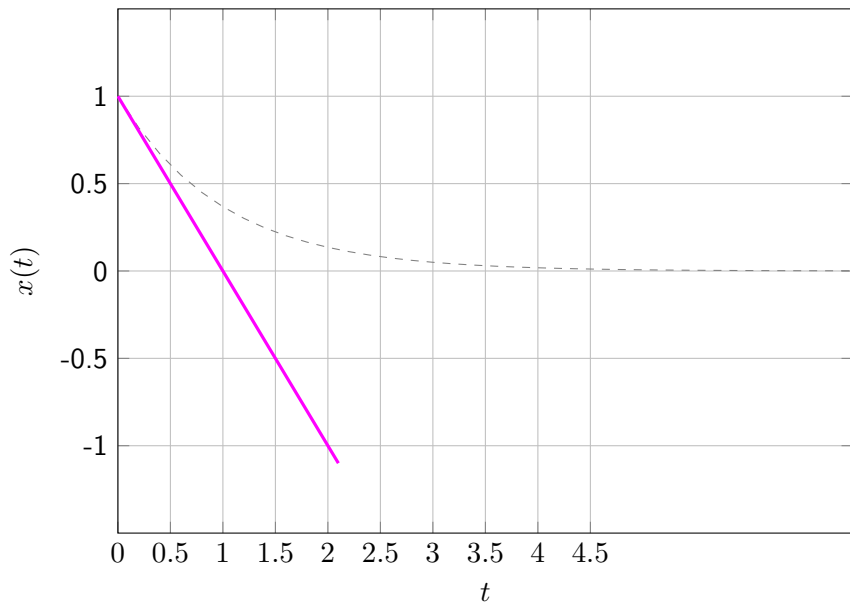
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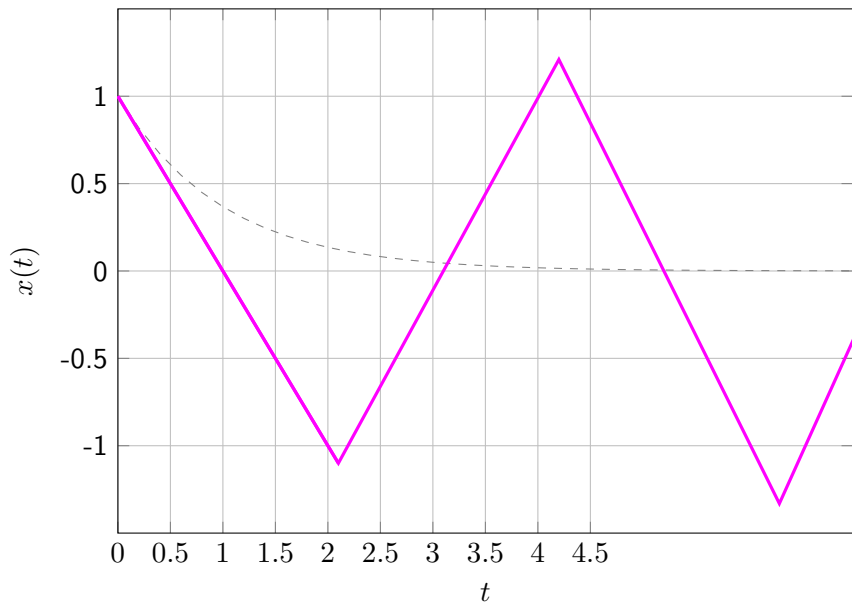
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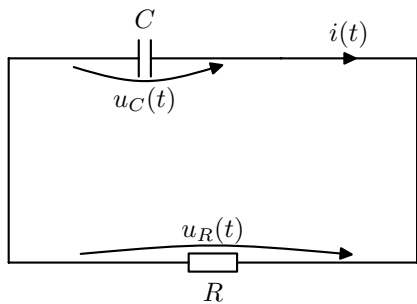
euler,ex



euler,ex



Beispiel



Beispiel

$$u_C(t) = u_R(t) := u(t)$$

$$i(t) = \frac{-u_R(t)}{R}$$

$$u_C(t) = u_0 + \frac{1}{C} \int_0^t i(t) dt$$

$$\dot{u}(t) = \boxed{\frac{-1}{RC}} u(t), \quad u(0) = u_0$$

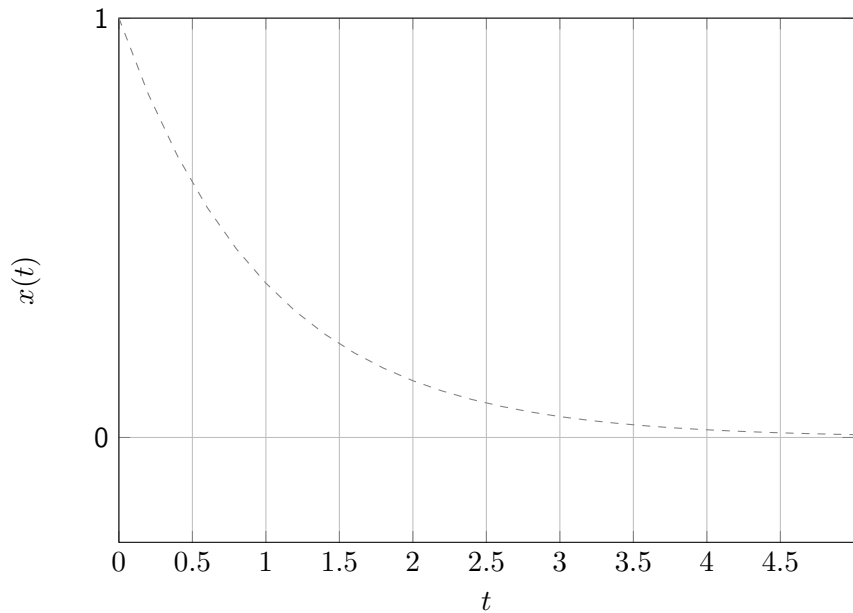
$$\dot{x} = \lambda x, \quad x(0) = x_0$$

$$\text{hier: } \dot{x} = -x$$

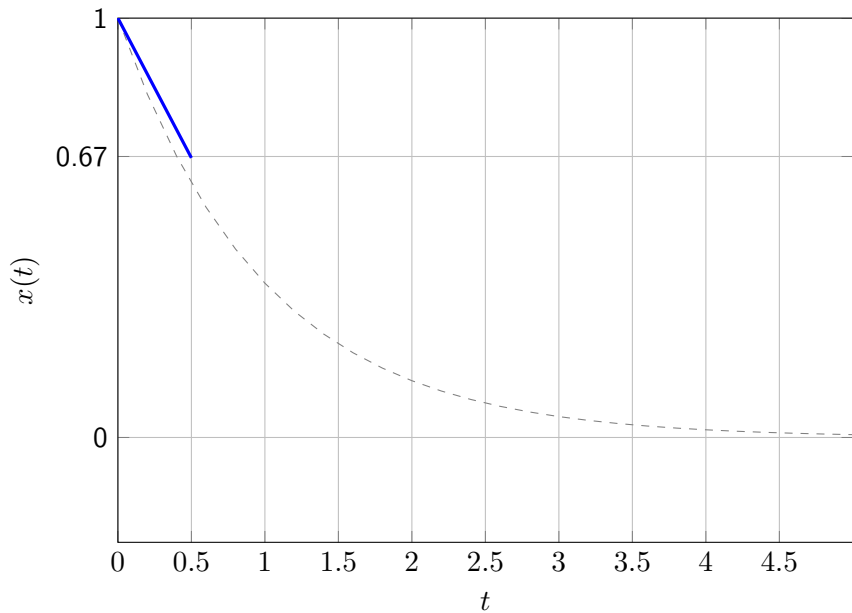
Echte Lösung:

$$x(t) = x_0 e^{\lambda t}$$

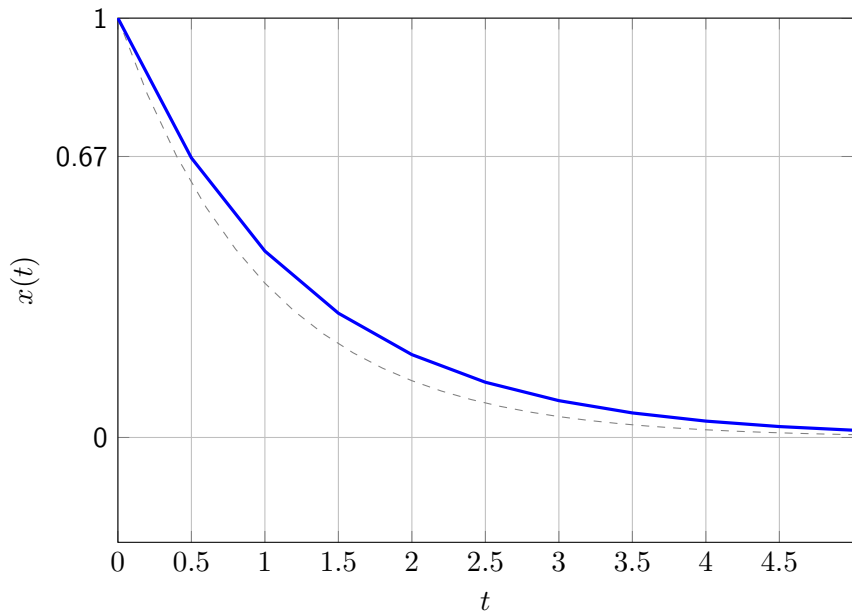
euler,im



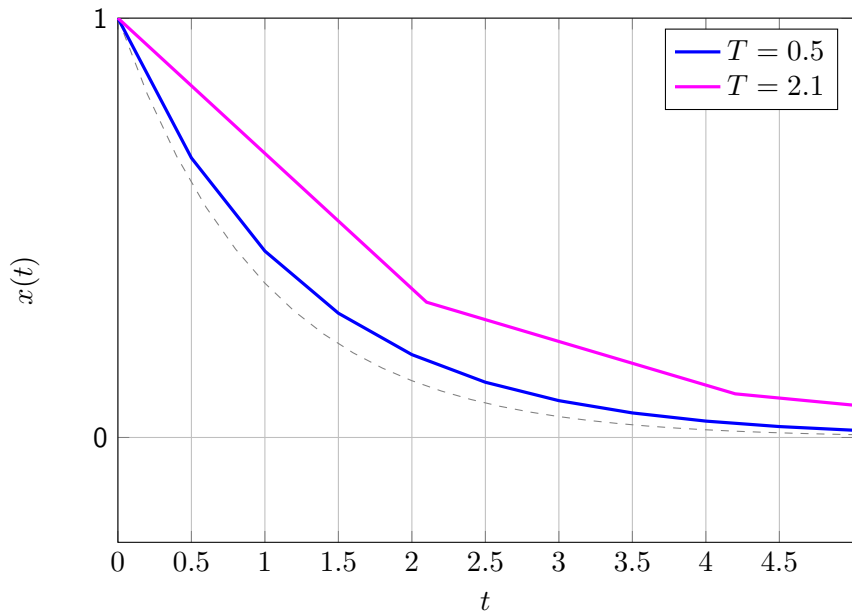
euler,im



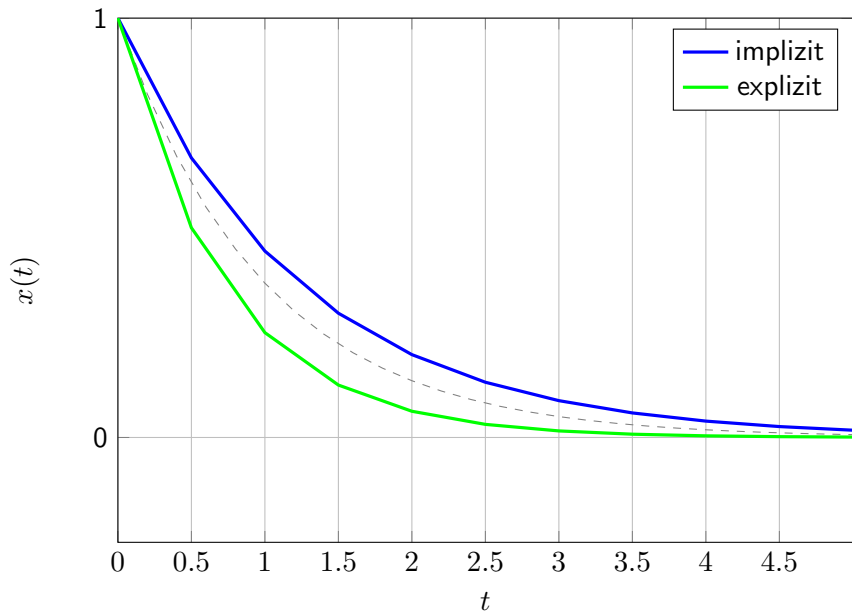
euler,im



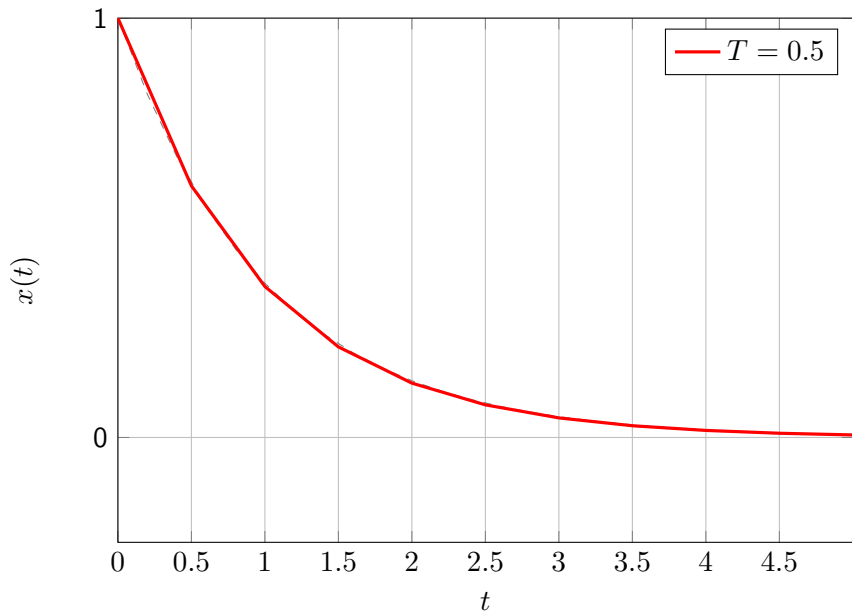
euler,im



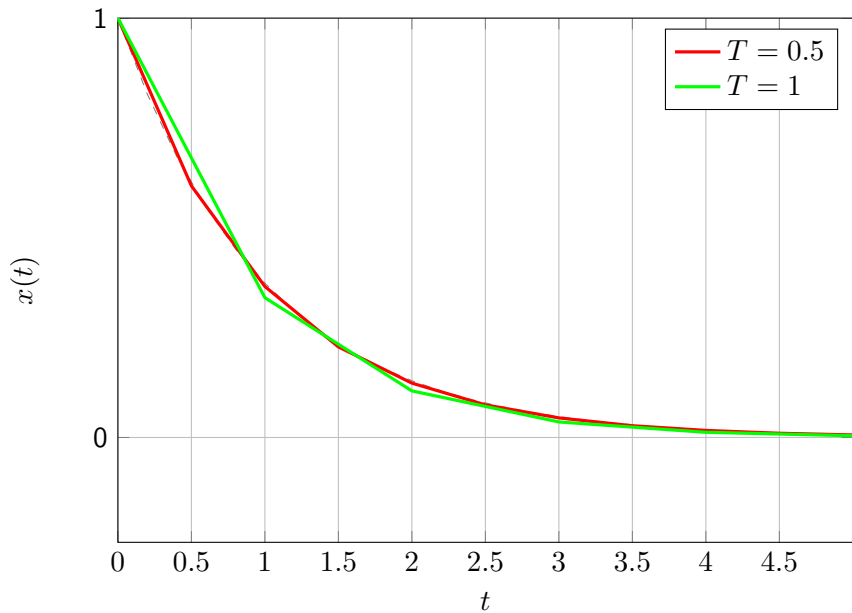
euler,im



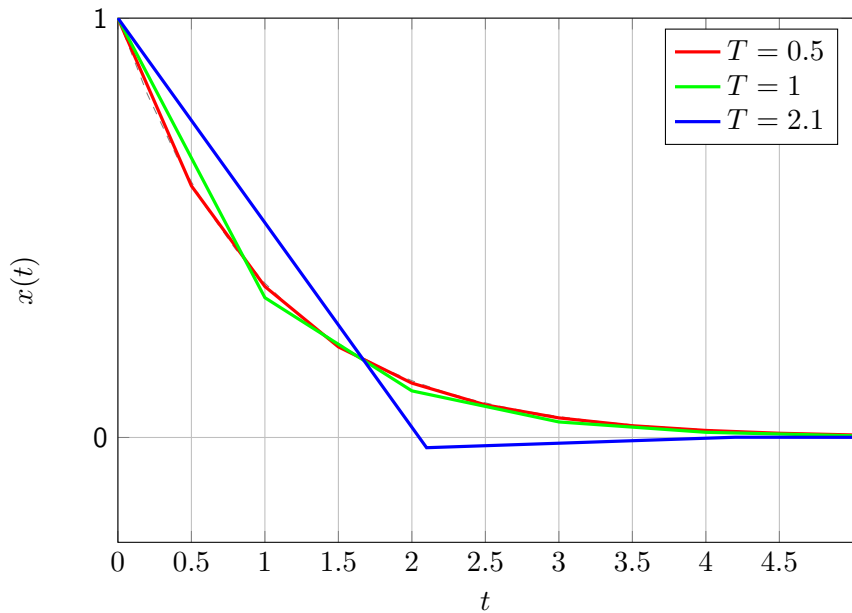
Trapez



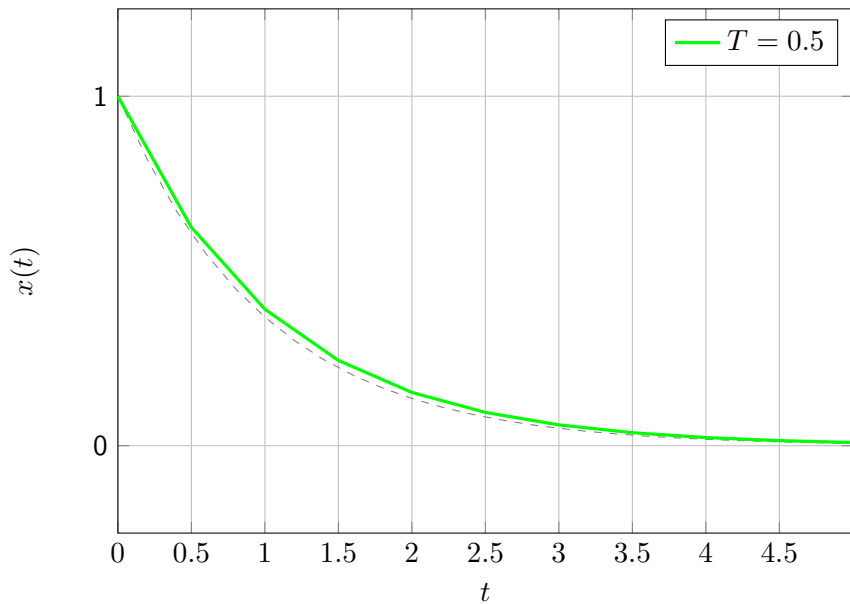
Trapez



Trapez



Heun



Heun

