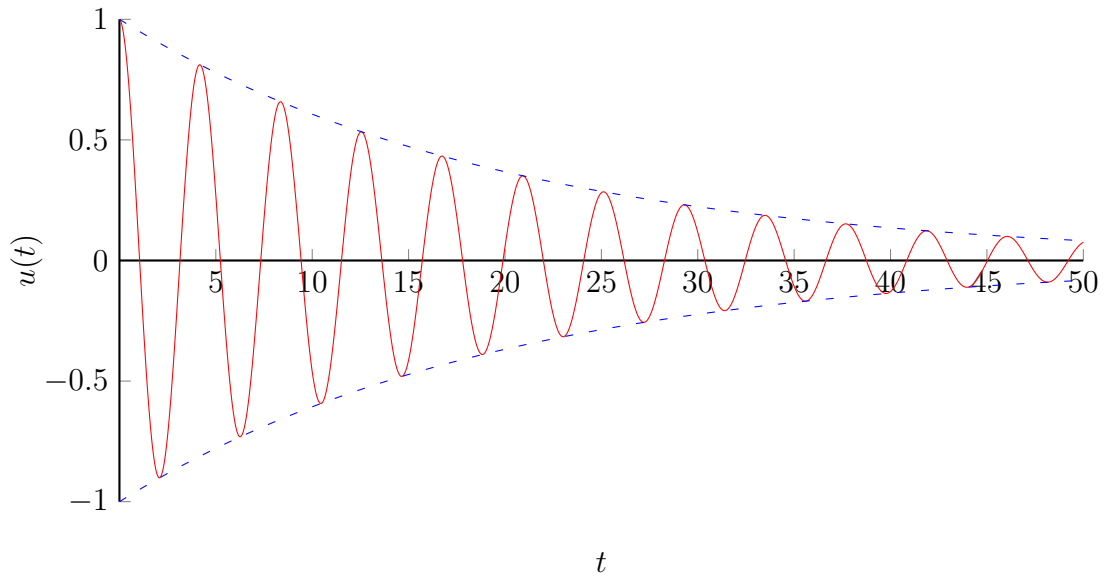
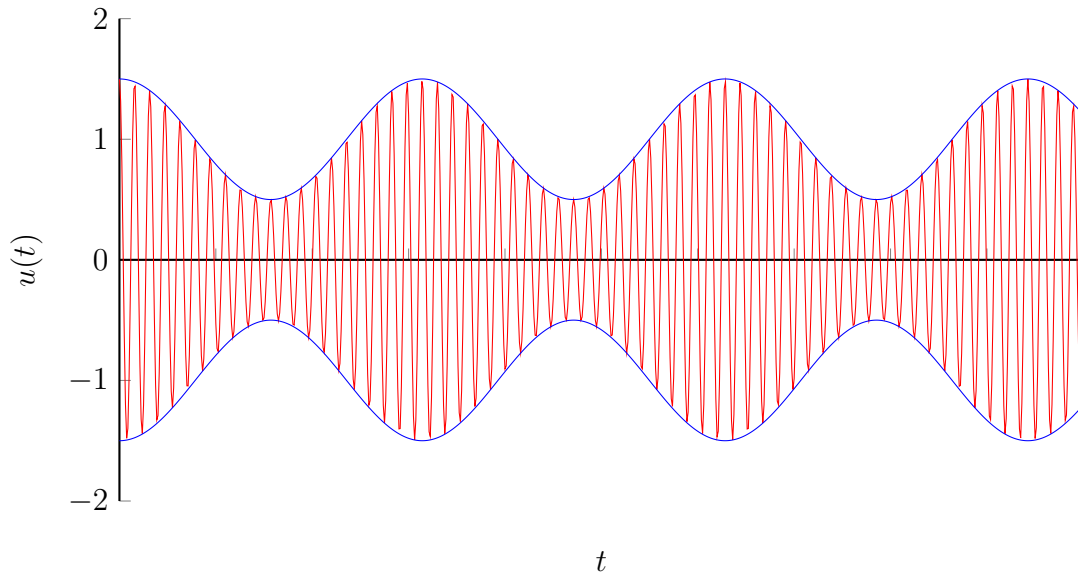


Exponential sinusoidal decay, function: $u(t) = e^{-0.05t} \cos(1.5t)$, samples = 2001



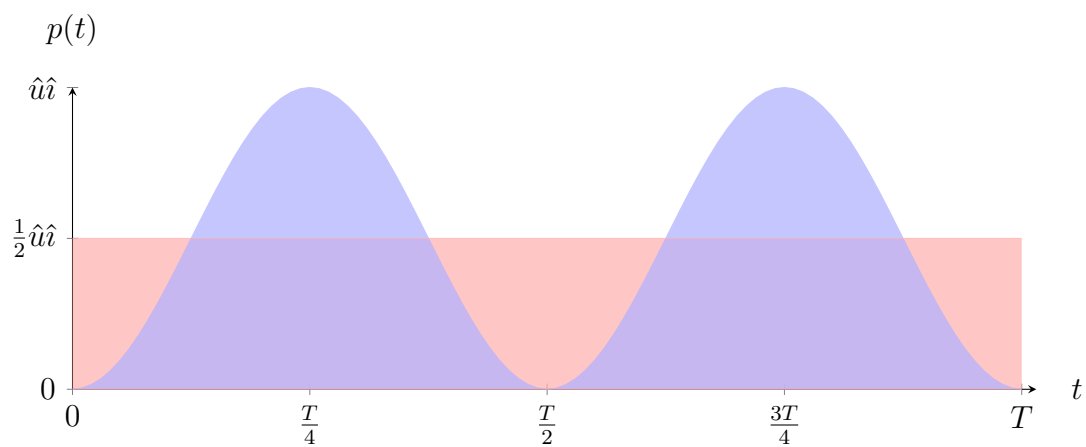
AM modulation, function: $u(t) = (1 + 0.5 \cos t) \cdot \cos(20t)$, samples: 2001



Effective power: function: $p(t) = \hat{u}\hat{i} \sin^2 \omega t$ ($\cos \varphi = 1$), samples = 101

$$\begin{aligned} p(t) &= u(t) \cdot i(t) = \hat{u} \sin(\omega t) \cdot \hat{i} \sin(\omega t) \\ &= \hat{u}\hat{i} \sin^2(\omega t) \end{aligned}$$

$$\begin{aligned} P_{gem} &= \frac{\hat{u}\hat{i}}{T} \int_0^T \sin^2(\omega t) dt \\ &= \frac{1}{2} \hat{u}\hat{i} \end{aligned}$$



Complex spiral, function: $\underline{z} = e^{-0.05\varphi}(\cos \varphi + j \sin \varphi)$, samples = 301

