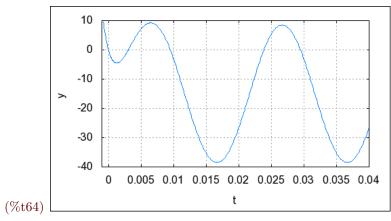
```
(%i52) w:2*%pi*50;
        R:12;
        L:22*10^-3;
         z2:R^2+(w*L)^2;
         Vm:230*sqrt(2);
         E:180;
         a:0*(%pi/180);
         V(t):=Vm*sin(w*t+a);
         C1:Vm/z2*(L*w*cos(a)-R*sin(a))+E/R,numer;
         C2:Vm/z2*(R*sin(a)-L*w*cos(a)),numer;
         C3:Vm/z2*(R*cos(a)+L*w*sin(a)),numer;
(\%052)\ 100\,\pi
(%o53) 12
(\%054) \frac{11}{500}
(\%055) \frac{121 \pi^2}{25} + 144
(\%056) 1152^{\frac{3}{2}}
(%o57) 180
(\%058)0
(\%059) V(t) := Vm \sin(w t + a)
(%o60) 26.722958931405
(\%061) - 11.722958931405
(\%062) 20.35382030832425
(\%i63) i(t):=C1*\%e^(-R/L*t)+C2*cos(w*t)+C3*sin(w*t)-(E/R);
         wxplot2d([i(t),V(t)],[t,-0.001,0.04],[y,-40,10],[gnuplot_preamble, "set grid"]);
(\% \mathbf{o63}) \ \mathbf{i} \ (t) := C1 \, e^{\frac{-R}{L} \, t} + C2 \cos{(w \, t)} + C3 \sin{(w \, t)} - \frac{E}{R} plot2d : some values were clipped.plot2d :
some values were clipped.\\
```



(%o64)

--> kill(all);