```
\documentclass[a4paper,12pt]{article}
\usepackage[T1]{fontenc}
\usepackage[latin1]{inputenc}
\usepackage{ngerman}
\usepackage{fancyhdr}
\usepackage{amsmath,amsthm}
\usepackage{enumerate}
\usepackage{calc}         % From LaTeX distribution
\usepackage{multido}      % From PSTricks
\usepackage{array}
\usepackage[dvips]{graphics}
\usepackage[dvips]{changebar}
\usepackage{pstricks}
\usepackage{pst-plot}
\usepackage{pst-node}
\usepackage{pst-osci,pst-circ}
\usepackage{pst-poly}     % From pstricks/contrib/pst-poly
\usepackage{pst-optic}
\usepackage{pst-eucl}
\usepackage{pst-math}
\usepackage{pst-func}
\usepackage{pstricks-add}

\setlength{\topmargin}{-2.9cm}% \addtolength{\topmargin}{.4pt}
\addtolength{\oddsidemargin}{-2cm} \textheight26.9cm \textwidth16.5cm

\begin{document}

\begin{center}
\begin{pspicture}(-1,-1)(12,5)
 \psframe*[linecolor=green!20](-0.8,-0.8)(12.5,4.6)
 \psframe*[linecolor=white](0,0)(12,4.0)
 \psgrid[subgriddiv=0,gridcolor=lightgray,griddots=10,gridlabels=0,xunit=1,yunit=1.333](0,0)(11.5,3.0)
\psset{xAxisLabel=$t$, yAxisLabel=$U$,arrowscale=2}
\begin{psgraph}{->}(0,-0.5)(12,1.0){12cm}{4cm}
\makeatletter
\psplot[plotpoints=20,linecolor=red,linewidth=2pt]{0}{11.5}
  [ /yMax 0.5 def /T0 2 def /T1 T0 def ]% <=== this is new !!!!
  { x T1 gt {
     T1 yMax \tx@ScreenCoor
     2 copy 4 2 roll L neg L
     /yMax yMax neg def /T1 T1 T0 add def } if yMax }
  \end{psgraph}
\end{pspicture}
\end{center}

\begin{center}
\begin{pspicture}(-1,-0.5)(12,4)
 \psframe*[linecolor=green!20](-0.8,-0.5)(12.5,4.6)%
```

```
 \psframe*[linecolor=white](0,0)(12,4)
 \psgrid[subgriddiv=0,gridcolor=lightgray,griddots=10,gridlabels=0](0,0)(12,4)
\psset{xAxisLabel=$t$, yAxisLabel=$I$,arrowscale=2}
\def\R{120}%    Widerstand
\def\L{0.16}%   Induktivität
\def\t{0.004}%    Zeitkonstante
\def\A{1}%     Amplitude
\begin{psgraph}{->}(0,0)(0,-.5)(12,1.5){12cm}{4cm}
\psplot[linewidth=1pt,algebraic=true,plotpoints=500,linecolor=blue,yMaxValue=5,yMinValue=-
2]{0}{2}
  {\A*(1-2.7182818^(-x*\t*\R/\L))}
\psplot[linewidth=1pt,algebraic=true,plotpoints=500,linecolor=blue,yMaxValue=5,yMinValue=-
2]{4}{6}
  {\A*(1-2.7182818^(-(x-4)*\t*\R/\L))}
\psplot[linewidth=1pt,algebraic=true,plotpoints=500,linecolor=blue,yMaxValue=5,yMinValue=-
2]{8}{10}
  {\A*(1-2.7182818^(-(x-8)*\t*\R/\L))}
\psplot[linewidth=1pt,algebraic=true,plotpoints=500,linecolor=blue,yMaxValue=5,yMinValue=-
2]{2}{4}
  {\A*2.7182818^(-(x-2)*\t*\R/\L)}
\psplot[linewidth=1pt,algebraic=true,plotpoints=500,linecolor=blue,yMaxValue=5,yMinValue=-
2]{6}{8}
  {\A*2.7182818^(-(x-6)*\t*\R/\L)}
  \psplot[linewidth=1pt,algebraic=true,plotpoints=500,linecolor=blue,yMaxValue=5,yMinValue=-
2]{10}{11.5}
  {\A*2.7182818^(-(x-10)*\t*\R/\L)}
  \end{psgraph}
\end{pspicture}
\end{center}

\begin{center}
\begin{pspicture}(-1,-0.5)(12,4)
 \psframe*[linecolor=green!20](-0.8,-0.5)(12.5,4.6)%
 \psframe*[linecolor=white](0,0)(12,4)
 \psgrid[subgriddiv=0,gridcolor=lightgray,griddots=10,gridlabels=0](0,0)(12,4)
\psset{xAxisLabel=$t$, yAxisLabel=$I$,arrowscale=2}
\def\R{120}%    Widerstand
\def\L{0.5}%   Induktivität
\def\t{0.004}%    Zeitkonstante
\def\A{1}%     Amplitude
\begin{psgraph}{->}(0,0)(0,-.5)(12,1.5){12cm}{4cm}
\psplot[linewidth=1pt,algebraic=true,plotpoints=500,linecolor=blue,yMaxValue=5,yMinValue=-
2]{0}{2}
  {\A*(1-2.7182818^(-x*\t*\R/\L))}
\psplot[linewidth=1pt,algebraic=true,plotpoints=500,linecolor=blue,yMaxValue=5,yMinValue=-
2]{4}{6}
  {\A*(1-2.7182818^(-(x-4)*\t*\R/\L))}
\psplot[linewidth=1pt,algebraic=true,plotpoints=500,linecolor=blue,yMaxValue=5,yMinValue=-
2]{8}{10}
```

```
  {\A*(1-2.7182818^(-(x-8)*\t*\R/\L))}
\psplot[linewidth=1pt,algebraic=true,plotpoints=500,linecolor=blue,yMaxValue=5,yMinValue=-
2]{2}{4}
  {\A*2.7182818^(-(x-2)*\t*\R/\L)}
\psplot[linewidth=1pt,algebraic=true,plotpoints=500,linecolor=blue,yMaxValue=5,yMinValue=-
2]{6}{8}
  {\A*2.7182818^(-(x-6)*\t*\R/\L)}
  \psplot[linewidth=1pt,algebraic=true,plotpoints=500,linecolor=blue,yMaxValue=5,yMinValue=-
2]{10}{11.5}
  {\A*2.7182818^(-(x-10)*\t*\R/\L)}
  \end{psgraph}
\end{pspicture}
\end{center}

\begin{center}
\begin{pspicture}(-1,-1)(12,6)
 \psframe*[linecolor=green!20](-0.8,-0.4)(12.5,6.8)
 \psframe*[linecolor=white](0,0)(12,6)
 \psgrid[subgriddiv=0,gridcolor=lightgray,griddots=10,gridlabels=0](0,0)(12,6)
\psset{xAxisLabel=$t$, yAxisLabel=$U_{\text{ind}}$,arrowscale=2}
\def\R{120}%    Widerstand
\def\L{0.16}%   Induktivität
\def\t{0.004}%  Zeitkonstante
\def\A{1}%     Amplitude
\def\B{1}%     Amplitude
\begin{psgraph}{->}(0,0)(0,-1.5)(12,1.5){12cm}{6cm}
\psplot[linewidth=1pt,algebraic=true,plotpoints=500,linecolor=green,yMaxValue=5,yMinValue=-
2]{0}{2}
  {\A*(-2.7182818^(-x*\t*\R/\L))}
\psplot[linewidth=1pt,algebraic=true,plotpoints=500,linecolor=green,yMaxValue=5,yMinValue=-
2]{4}{6}
  {\A*(-2.7182818^(-(x-4)*\t*\R/\L))}
\psplot[linewidth=1pt,algebraic=true,plotpoints=500,linecolor=green,yMaxValue=5,yMinValue=-
2]{8}{10}
  {\A*(-2.7182818^(-(x-8)*\t*\R/\L))}
\psplot[linewidth=1pt,algebraic=true,plotpoints=500,linecolor=green,yMaxValue=1.5,yMinValue=-
2]{2}{4}
  {\B*2.7182818^(-(x-2)*\t*\R/\L)}
\psplot[linewidth=1pt,algebraic=true,plotpoints=500,linecolor=green,yMaxValue=1.5,yMinValue=-
2]{6}{8}
  {\B*2.7182818^(-(x-6)*\t*\R/\L)}
  \psplot[linewidth=1pt,algebraic=true,plotpoints=500,linecolor=green,yMaxValue=1.5,yMinValue=-
2]{10}{11.5}
  {\B*2.7182818^(-(x-10)*\t*\R/\L)}
%  \psline[linewidth=1pt,linecolor=blue](2,0)(2,1.5)%
%  \psline[linewidth=1pt,linecolor=blue](6,0)(6,1.5)%
%  \psline[linewidth=1pt,linecolor=blue](10,0)(10,1.5)%
  \end{psgraph}
\end{pspicture}
```

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\end{center}

\end{document}
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