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\documentclass[a4paper]{article}
\usepackage{pstricks}
\usepackage{pst-plot}
\usepackage{multido}
\usepackage{pst-xkey}
\makeatletter
\pst@addfams{user}
\define@key{psset}{user}{nLoop}{\def\psnLoop{#1}}
\psset[user]{nLoop=1}
\makeatother
\def\chooseColor#1{%
  \ifcase#1\or red\or green\or blue\or cyan\or magenta\or gray\fi}

\parindent=0pt
\begin{document}

\psset{xunit=1.5mm,yunit=3mm}
\begin{pspicture}(-45,0)(45,20)
  \psaxes[Dy=10,Dx=15]{->}(0,0)(-45,0)(45,20)
  \pstVerb{%
    /dc 0.2 def
    /kx 12 def
    /ky 12 def
    /pi 3.141529 def
    /rad2deg { 57.296 mul } def
    /si { pi mul dup rad2deg sin exch div } def
    /Func {
      /nLoop exch def
      x kx mul nLoop mul cos
      nLoop dc mul si mul

```

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    } def
}%
\psset{plotpoints=400,linecolor=red,plotstyle=curve}%
\multido{\iA=1+1}{6}{%
  \psplot[linecolor=\chooseColor\iA,nLoop=\iA]{-45}{45}{%
    /y0 x kx mul cos dc si mul def
    /y1 0 def
    1 1 \psnLoop {
      Func y1 add /y1 exch def
    } for
    y1 y0 add
    dc mul 2 mul
    dc add
    ky mul
  }%
}%
\end{pspicture}

```