



```

\usepackage{pst-eucl,pstricks-add}

\psset{xAxisLabel=$x$,yAxisLabel=$y$,PointName=none,plotpoints=1000}%
\def\F{x 2 mul sqrt}%
\def\f{x 2 sub dup mul 8 div 1 add}%

\begin{psgraph}[ticksiz=0,arrowscale=1.5,labels=none,linewidth=0.5pt]{->}%
  (0,0)(-0.1,-0,1)(8,5){0.5\linewidth}{0.5\linewidth}%
  \psplot{0}{8}{\F} \psplot{0}{8}{\f}%
  %
  \pstInterFF{\F}{\f}{1}{A}%
  \pstInterFF{\F}{\f}{8}{B}%
  %
  \pscustom[linestyle=none,fillstyle=hlines,hatchsep=4pt,hatchcolor=blue]{%
    \code{ \psGetNodeCenter{A} \psGetNodeCenter{B} }
    \psplot{A.x}{B.x}{\F} \psplot{B.x}{A.x}{\f}
  }
\end{psgraph}

```