

```
\begin{tikzpicture}
  \begin{axis}[
    axis lines=middle,
    xmin=0, xmax=4,
    ymin=0, ymax=3,
    xtick={0,1,2,3,4},
    ytick={0,1,2,3},
    xlabel style={below right},
    ylabel style={above left},
  ]
    \addplot[domain=0:4,smooth,red,thick] {sqrt(x)};
    \node[right] at (axis cs: 3,1.5) {$C_f$};
  \end{axis}
\end{tikzpicture}
```

