

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

