

```
\begin{tikzpicture}
  \begin{axis}[
    axis lines=middle,
    xmin=-5, xmax=5,
    ymin=-1, ymax=1,
    xtick={-5,-4,-3,-2,-1,0,1,2,3,4,5},
    ytick={-1,-0.5,0,0.5,1},
    xlabel style={below right},
    ylabel style={above left},
  ]
    \addplot[domain=-5:5,smooth,red,thick] {tanh(x)};
    \node[right] at (axis cs: 2,0.5) {$C_f$};
  \end{axis}
\end{tikzpicture}
```

