

```
\begin{tikzpicture}
  \begin{axis}[
    axis lines=middle,
    xmin=-3, xmax=3,
    ymin=-10, ymax=10,
    xtick={-3,-2,-1,0,1,2,3},
    ytick={-10,-8,-6,-4,-2,0,2,4,6,8,10},
    xlabel style={below right},
    ylabel style={above left},
  ]
    \addplot[domain=-3:3,smooth,red,thick] {\sinh(x)};
    \node[right] at (axis cs: 2,5) { $C_f$ };
  \end{axis}
\end{tikzpicture}
```

