

```

\begin{tikzpicture}
  \begin{axis}[
    axis lines=middle,
    xmin=-2*pi, xmax=2*pi,
    ymin=-1.5, ymax=1.5,
    xtick={-2*pi,-1.5*pi,...,2*pi},
    xticklabels={\(-2\pi\),
    \(-\frac{3}{2}\pi\), \(-\pi\), \(-\frac{1}{2}\pi\),
    \(\frac{\pi}{2}\), \(\pi\), \(\frac{3}{2}\pi\), \(2\pi\)},
    ytick={-1,-0.5,0,0.5,1},
    xlabel style={below right},
    ylabel style={above left},
  ]
  \addplot[domain=-2*pi:2*pi,smooth,red,thick] {cos(
    deg(x))};
  \node[right] at (axis cs: 3,1) {\(C_f\)};
\end{axis}
\end{tikzpicture}

```

