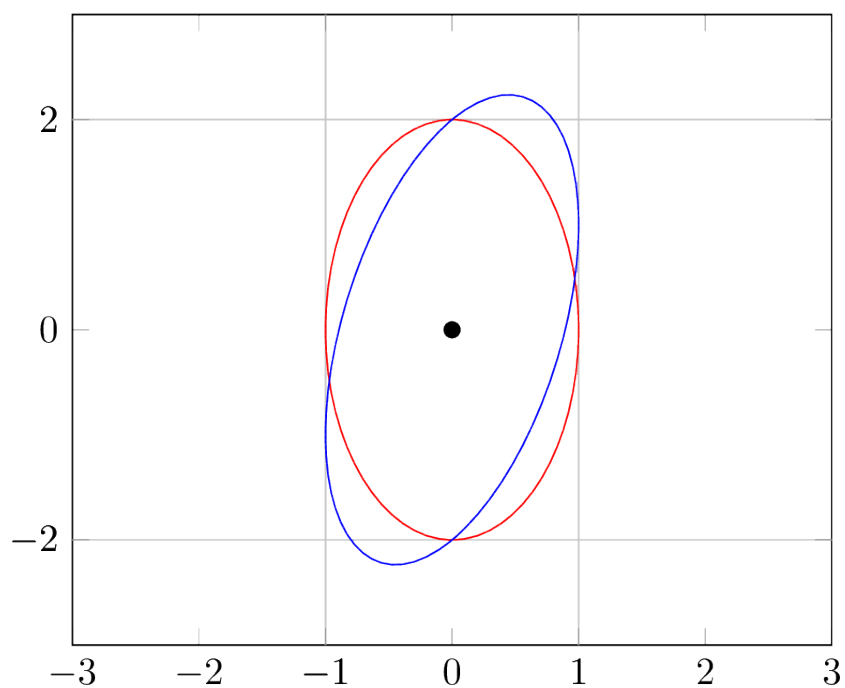


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```
\begin{tikzpicture}
\begin{axis}[
  xmin=-3,   xmax=3,
  ymin=-3,   ymax=3,
  extra x ticks={-1,1},
  extra y ticks={-2,2},
  extra tick style={grid=major},
]
\draw[red] \pgfextra{
  \pgfpathellipse{\pgfplotspointaxisxy{0}{0}}
    {\pgfplotspointaxisdirectionxy{1}{0}}
    {\pgfplotspointaxisdirectionxy{0}{2}}
  % see also the documentation of
  % 'axis direction cs' which
  % allows a simpler way to draw this ellipse
};
\draw[blue] \pgfextra{
  \pgfpathellipse{\pgfplotspointaxisxy{0}{0}}
    {\pgfplotspointaxisdirectionxy{1}{1}}
    {\pgfplotspointaxisdirectionxy{0}{2}}
};
\addplot [only marks,mark=*] coordinates { (0,0) };
\end{axis}
\end{tikzpicture}
```



```

\begin{tikzpicture}
  \begin{axis}[
    xlabel=Cost,
    ylabel=Error]
    \addplot[ color=red,mark=x] coordinates {
      (2,-2.8559703)
      (3,-3.5301677)
      (4,-4.3050655)
      (5,-5.1413136)
      (6,-6.0322865)
      (7,-6.9675052)
      (8,-7.9377747)
    };
  \end{axis}
\end{tikzpicture}

```

