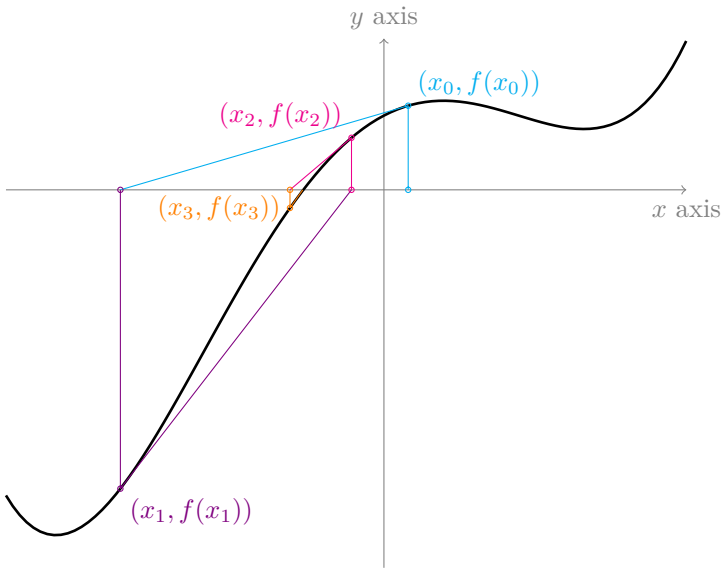


```
% !TEX encoding = UTF-8 Unicode
% !TEX program = pdflatex
\documentclass{article}
    \usepackage{tikz}
\begin{document}
    \begin{tikzpicture}
        \draw[gray, ->] (-5, 0) -- (4, 0) node[below]{$x$ axis};
        \draw[gray, ->] (0, -5) -- (0, 2) node[above]{$y$ axis};
        \def\a{1.21} \def\b{-25.6} \def\c{36.1} \def\d{67.8}
        \pgfmathdeclarefunction{f}{1}{\pgfmathparse{
            ((#1)^4 + \a*(#1)^3 + \b*(#1)^2 + \c*(#1) + \d)/69}}
        \pgfmathdeclarefunction{dfdx}{1}{\pgfmathparse{
            (4*(#1)^3 + 3*\a*(#1)^2 + 2*\b*(#1) + \c)/69}}
        \draw [line width=1pt] plot
            [variable = \t, domain = -5:4, samples = 100] ({\t}, {f(\t)});
        \pgfmathsetmacro\x{0.321} \pgfmathsetmacro\quo{f(\x)/dfdx(\x)}
        \draw [cyan] ({\x}, 0) circle [radius = 1pt]
            -- ({\x}, {f(\x)}) circle [radius = 1pt]
                node [above right] {$(x_0, f(x_0))$}
            -- ({\x - \quo}, {0});
        \pgfmathsetmacro\x{\x-\quo} \pgfmathsetmacro\quo{f(\x)/dfdx(\x)}
        \draw [violet] ({\x}, {0}) circle [radius = 1pt]
            -- ({\x}, {f(\x)}) circle [radius = 1pt]
                node [below right] {$(x_1, f(x_1))$}
            -- ({\x - \quo}, {0});
        \pgfmathsetmacro\x{\x-\quo} \pgfmathsetmacro\quo{f(\x)/dfdx(\x)}
        \draw [magenta] ({\x}, {0}) circle [radius = 1pt]
            -- ({\x}, {f(\x)}) circle [radius = 1pt]
                node [above left] {$(x_2, f(x_2))$}
            -- ({\x - \quo}, {0});
        \pgfmathsetmacro\x{\x-\quo} \pgfmathsetmacro\quo{f(\x)/dfdx(\x)}
        \draw [orange] ({\x}, {0}) circle [radius = 1pt]
            -- ({\x}, {f(\x)}) circle [radius = 1pt]
                node [left] {$(x_3, f(x_3))$}
            -- ({\x - \quo}, {0});
    \end{tikzpicture}
\end{document}
```