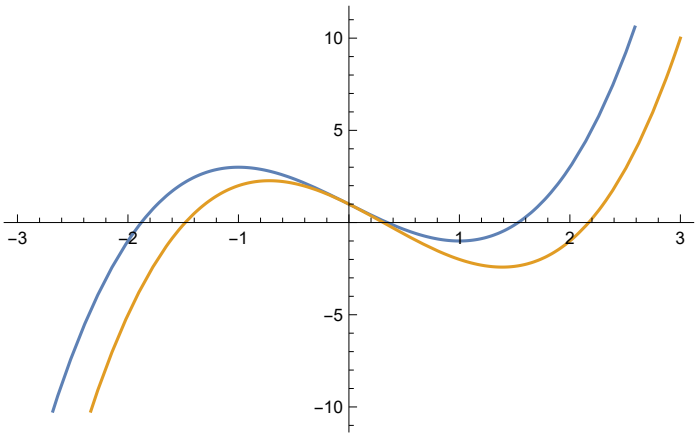


曲线的曲率

```
In[*]:= Plot[{x^3 - 3 x + 1, x^3 - x^2 - 3 x + 1}, {x, -3, 3}]
```

绘图

Out[*]=

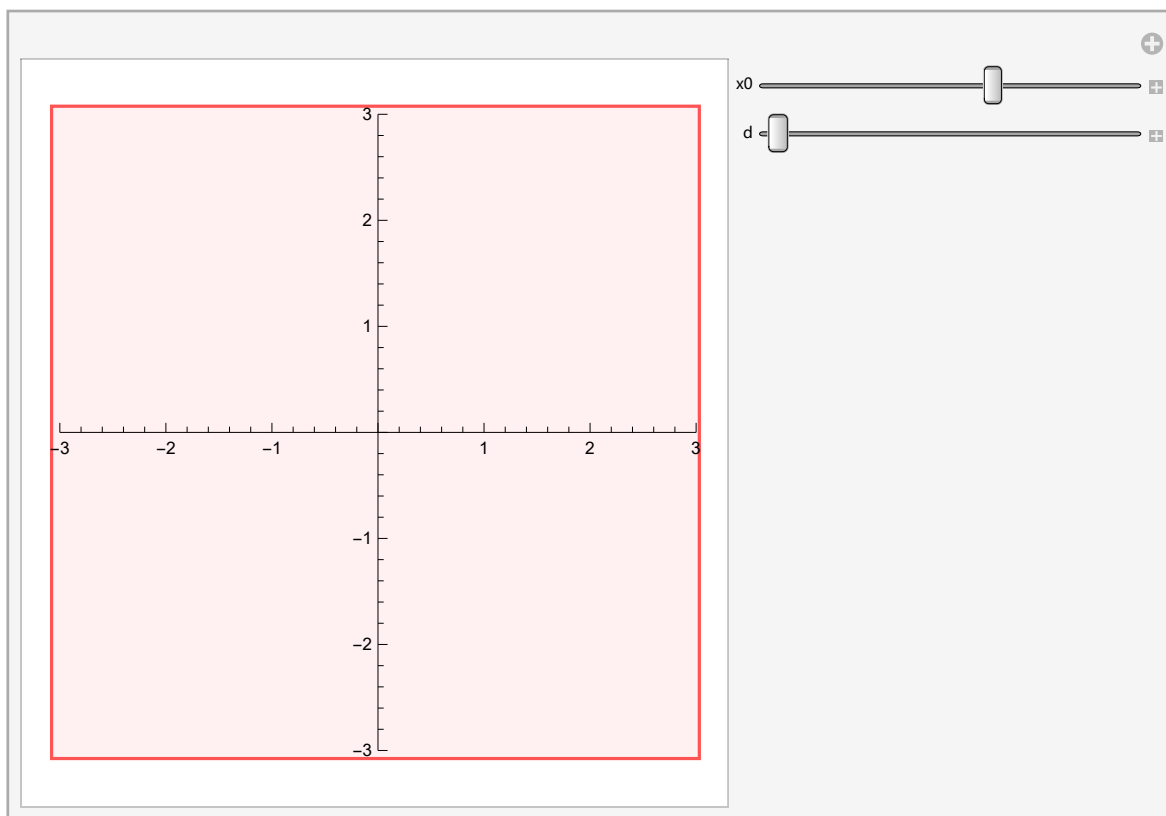


```

In[ ]:= f[x_] := x3/3 - x + 1
Manipulate[
  Show[Plot[{f[x]}, {x, -3, 3}, PlotRange → {{-3, 3}, {-3, 3}}, AspectRatio → 1],
    Graphics[{CircleThrough[Table[{x, f[x]}, {x, {x0 - d, x0, x0 + d}}]],
      PointSize[Large], Magenta, Point[{x0, f[x0]}]}], {x0, 1}, -3, 3}, {d, 0.1, 0.2}]

```

Out[]:=



... CircleThrough: {{-0.1, 1.09967}, {0., 1.}, {0.1, 0.900333}} 的 CircleThrough 不存在.

三角形与外接圆的关系

$$R = \frac{abc}{4S}$$