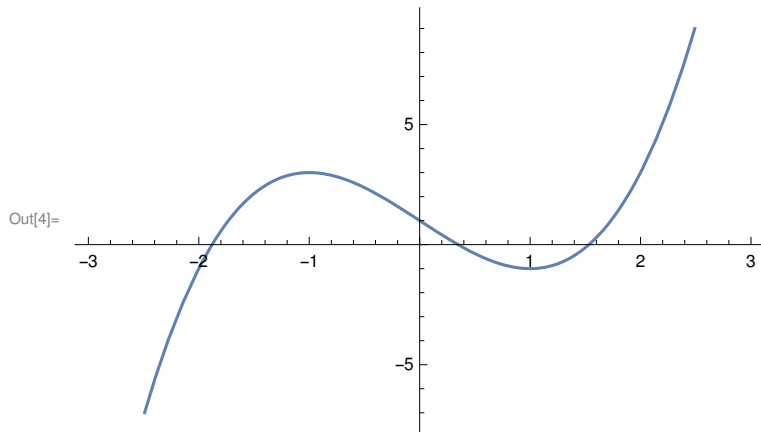


```
In[1]:= f[x_] := x^3 - 3 x + 1
```

```
In[4]:= Plot[f[x], {x, -3, 3}]
```



```
In[5]:= g[x_] := x - f[x] / f'[x]
```

```
In[16]:= NestList[g, 0.1, 7] // TableForm
```

Out[16]//TableForm=

```
0.1
0.336027
0.347248
0.347296
0.347296
0.347296
0.347296
0.347296
```

```
In[11]:= g60[x_] := N[g[x], 60]
```

```
In[17]:= NestList[g60, 1 / 10, 7] // TableForm
```

Out[17]//TableForm=

```
 $\frac{1}{10}$ 
0.336026936026936026936026936026936026936026936026936026936026936027
0.347247710181232449984222105751473894726746479238354742727793
0.34729635439943891797448063886076069599367549302936626258982
0.3472963553386069735860173322083620187304234464087432983718
0.3472963553386069770343325353862959195379061059213763394022
0.347296355338606977034332535386295920007513543681387744725
0.347296355338606977034332535386295920007513543681387744725
```