

```
f := x -> x^3 + 3*x^2 - 3 ; g := f'  
x → x3 + 3 · x2 - 3  
x → 3 · x2 + 6 · x  
x_0 := 1.0  
1.0  
x_1 := x_0 - f(x_0)/g(x_0)  
0.8888888889  
x_2 := x_1 - f(x_1)/g(x_1)  
0.879451567  
x_3 := x_2 - f(x_2)/g(x_2)  
0.8793852448  
x_4 := x_3 - f(x_3)/g(x_3)  
0.8793852416  
x_5 := x_4 - f(x_4)/g(x_4)  
0.8793852416
```