Square roots with Newton's Method

1分

Let's find the square root of 5 using Newton's method. Stop if your last two x values differ by less than 10^{-13}.

Print your x values as you go along.

INPUT:

- `x0` , a starting value

OUTPUT:

- `zero` , your approximation to the zero of the function (i.e $\sqrt{2}$)
- A plot of `f` with your zero marked (already produced by the provided plotting code)

评分代码 (点击查看)

起始代码 (点击查看)

回答*

```
for ...



zero = ...

# plotting code below, no need to modify
import matplotlib.pyplot as pt
import numpy as np

plot_x = np.linspace(-3, 3)
pt.plot(plot_x, f(plot_x))
pt.plot(zero, f(zero), "or")
```

按F9以打开/关闭全屏模式. 在 用户信息 (/profile/) 中设置编辑器模式.

保存回答 | 提交用于评分的回答

(您仍然可以在提交**本问题**后修改回答)