

```
x=10
w=x
for i in range(7):
    w=(w + x/w)/2.
    print(i,w)
print(np.sqrt(x))
```

```
0 5.5
1 3.659090909090909
2 3.196005081874647
3 3.16245562280389
4 3.162277665175675
5 3.162277660168379
6 3.162277660168379
3.16227766017
```