

equazioni-non-lineari-1

February 5, 2023

```
[1]: %display latex
```

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[2]: from scipy import optimize
```

```
[3]: var("x")
```

```
[3]: x
```

```
[4]: z = 6000-1000*(1+x)*((1+x)**5-1)/x
```

```
[5]: z
```

```
[5]: 
$$-\frac{1000((x+1)^5-1)(x+1)}{x} + 6000$$

```

```
[6]: def fun(x):  
    z = 6000-1000*(1+x)*((1+x)**5-1)/x  
    return z  
y = optimize.newton(fun,0.1)  
print (y)
```

0.0614024115365254