

Numerical Methods: Interpolation

Moritz Konarski

23.01.2019

Contents

1	Basics	1
1.1	Definition	1
1.2	level two heading	1
1.2.1	level three heading	2
2	Level one heading	2
2.1	level w alk;sdjflk	2
2.1.1	lasdfjl a	2

1 Basics

the basics of this shit lets add some shit to see that it works and I pray that it does

This formula $f(x) = x^2$ is an example.

1.1 Definition

Interpolation is the act of constructing new data points within a range of already known data points. It is used to construct intermediate data points if a set of points is already known. Interpolation is closely related to approximation, where a complicated function is, through its data points, reproduced using a much simpler function.

1.2 level two heading

his is some normal script that hopefully looks somewhat acceptable to the average peson this is some normal script that hopefully looks somewhat acceptable to the average peson this is some normal script that hopefully looks somewhat acceptable to the average peson this is some normal script that hopefully looks somewhat acceptable to the average peson this is some normal script that hopefully looks somewhat acceptable to the average peson this is some normal script that hopefully looks somewhat acceptable to the average peson this is some normal script that hopefully looks somewhat acceptable to the average peson this is some normal script that hopefully looks somewhat acceptable to the average peson

1.2.1 level three heading

e normal script that hopefully looks somewhat acceptable to the average peson this is some normal script that hopefully looks somewhat acceptable to the average peson *this is some normal script that hopefully looks somewhat acceptable to the average peson this is some normal script that hopefully looks somewhat acceptable to the average peson this is some normal script that hopefully looks somewhat acceptable to the average peson this is some normal script that hopefully looks somewhat acceptable to the average peson this is som*

2 Level one heading

2.1 level w alk;sdjfl

2.1.1 lasdfj a

a;slkdfj ;;la skdjf ;lasjd f;ajsdf jas;dlfj as df asjkl;dfj;alsdj f;asj dfjasdf asdklfj asjghdf kuwerajd f ja;sdfhlkjashdfkhasdfjopwiqe rkahjsdf ;asdlk fhj;askhdf;ajdf;l kj sdf;j asdfj

```
3.1215926535 * 300^2
```

```
## [1] 280943.3
```

```
sqrt(65536)
```

```
## [1] 256
```