

Numerical Methods: Interpolation

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1 Basics

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

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1.2.1 level three heading

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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
```