

Contents

Definition of function	1
Predicates	1
Identifiers	1
Substitution Rules	1
Inexact Numbers	1

Definition of function

```
(define (funciton-name parameters) (procedures))
```

- An evaluation step is a substitution step in racket



Predicates

```
(define (helper-funcitons? parameter) (statements))
```

Identifiers

- Can contain letters, numbers -, _, ., ?, = and some other characters
- Cannot contain space, brackets of any kind, or quotation marks
- Must contain at least one non-number

Substitution Rules

- **Leftmost/inner subexpression**(i.e. first closing bracket)
- Boolean Operators: 
- User-defined function: 
- Constant definition substitute one at a time when they are met

Inexact Numbers

The range of an exact number is around $\pm 2.23e-308$ to $\pm 1.80e308$ When we want to indicate that a function could produce or consume any type of number, we write `Num`. The `number?` predicate tests if something is a `Num`

Build-in Math Functions

<i>function</i>	<i>functionality</i>
abs	absolute value of a Num
sqrt	square root of a Num
log	ln of a Num
exp	e raised to a Num