Ruby 101

Intermediate Ruby: Math Module

Intermediate Ruby:

Math module:

Trig functions for more advanced math

can be called as class methods

```
Math.cos x
Math::cos x
```

or included

```
include Math
cos x
```

Intermediate Ruby:

Math module: Notetable methods

sin
cos
tan
asin (arc sin)
acos
atan
log
log10
log2
sqrt
hypot *x*, *y* -> Given sides of a right triangle, finds hypot

Intermediate Ruby:

Math module: Notetable CONSTANTS

E
PI

Intermediate Ruby:

Sometimes we need more:

mathn -> Keeps numbers more precise and gives access to serveral other math modules:

Prime -> For generating Prime Numbers
CMath -> Math for Complex Numbers
Vector -> Class for representing a vector, with vector arithmetic
Matrix -> Class for represnting a Matrix, with matrix arithmetic

To use:

```
require 'mathn'
```