**Using the IPython prompt – examples and exercises:**

If you want to use a **square root** in your calculation, you can either raise something to the power of 0.5 or you can import the math module:

16\*\*0.5 >> resultado será 4 OU:

import math >> da ENTER digita:

math.sqrt(16) >> resultado será 4 tb

The math module allows you to do a number of useful operations:

In [1]: math.log(16, 2)

Out [1]: 4.0

In [2]: math.cos( 0 )

Out [2]: 1.0

**Exercises: Use the IPython prompt to calculate:**(these are just for practice, solutions will not be graded or collected)

* 6+4\*10
* (6+4)\*10   
  (Compare this to the previous one, and note that Python uses parentheses just like you would in normal math to determine order of operations!)
* 23.0 to the 5th power
* Positive root of the following equation: 34\*x^2 + 68\*x - 510 = 0  
  Recall: given a\*x^2 + b\*x + c = 0,   
  then x = (-b +sqrt(b\*b - 4\*a\*c))/(2\*a)
* import math  
  math.cos(3.4)\*\*2+math.sin(3.4)\*\*2

**Unit 1: Python Basics / 1. Introduction to Python (1:03:12)**

Apostila no onedrive.

PRINTS:













