

## Outline for April 13, 2009

*Reading:* text, §3.5–3.7

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1. Biggest and smallest integer
  - a. More about bits
  - b. Show 32 bit maximum, minimum signed integer
  - c. Show largest floating point number that, when added to 1, is ignored (see eps.py)
2. Type conversion review
  - a. Assignment
  - b. Use of float(), int()
  - c. In arithmetic
3. Built-in function
  - a. type()
  - b. round()
  - c. range()
4. Math library
  - a. Making library available to program: “import math”
  - b. With above form of inclusion, must prefix with “math.”
  - c. With “from math import \*”, don’t need “math.”
  - d. Constants: pi, e
  - e. Functions: log(), log10(), exp(), pow()
  - f. Functions: sin(), cos(), tan(), asin(), acos(), atan(); arg in radians
5. Program to compute  $\sin^2(x) + \cos^2(x)$  (see trig.py)