Atmospheric Sciences 101 Math Assessment

This is only for helping me design the homeworks/quizzes. NO CALCULATORS. No name needed.

Your High School _____ City and State of your HS_____

1. Arithmetic

(a) $\dfrac{1}{0.1} =$

(b) $2^3 =$

(c) $64^{1/2} =$

(d) $2^{-2} =$

(e) $\dfrac{25*10^3}{5*10^{-5}} =$

(f) $231/7 =$ (no calculator, to the tenths place)

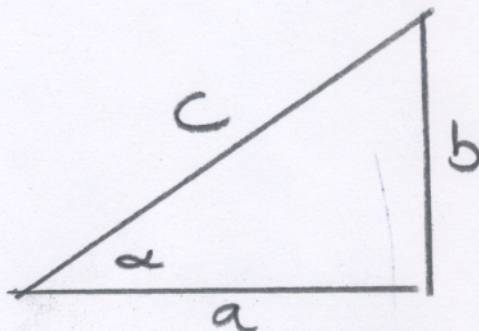### 2. Express in scientific notation

(a) .00012

(b) 300,000

3. Geometry and Trigonometry

(a) The formula for the area of a circle is:

(b) Using the diagram at the right, cos α =

a/b, b/a, a/c, d/a. b/c, c/b (circle the right answer)

4. Algebra

(a) PV=nRT; solve for T.

(b) y= x/(1-x); solve for x

(c) a/x =b/c; solve for x in terms of a, b, c