## 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)  $\frac{1}{0.1}$  =
- (b)  $2^3 =$
- (c) 641/2 -
- (d)  $2^{-2}$  =
- (e)  $\frac{25*10^3}{5*10^{-5}}$  =
- (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)



- (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

