

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) $64^{1/2} =$

(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

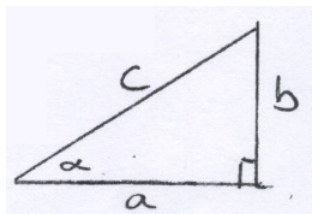
(b) 300,000

3. Geometry and Trigonometry

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

(b) Using the diagram at the right, $\cos \alpha =$

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