

Name _____ Banner _____

Spring 2008

Quiz #2

Precalculus

Clear your desk of everything but this quiz, a writing utensil (pen or pencil), and your student I.D. (I may verify your enrollment in this class if I don't recognize you). Do **NOT** use a calculator or formula/"cheat" sheet of any kind. Do not talk or look around the room.

Show your work. An answer without a solution receives no credit. Use proper notation. Think before you write or give up. Write on this paper only. Separate the pages and use the backsides for your scratchwork and to cover your work from the eyes of cheaters. Identify what scratchwork goes to which problem. Scratchwork is not a solution. Use your scratchwork to write a complete solution to each problem in the appropriate space provided. Box your answer at the end of your solution. Write legibly and make your arguments clear.

Please ask for clarification if a problem is illegible or ambiguous or if you suspect a typo. Do easy problems first. Check your work. Use the entire class time.

Do not leave this room with this quiz or a copy of any part of this quiz. Do not tell other students about any of the contents of this quiz as it can give them an unfair advantage (which is the same as an unfair disadvantage for you because it drives your grade down compared to the class average).

Your grade will be available in webCT as soon as the grader enters it, which should be within a week or so.

#1) Explain, in your own words, using grammatically correct sentences, the difference between units of radians and units of degrees, other than the obvious fact that $\theta^\circ \neq \theta$ radians. What are the possible advantages or disadvantages to using one unit or the other?
Hint: What was the possible motivation behind the definitions of each unit?

#2) Given that there are A molecules in a mole of molecules, and there are B atoms in each molecule, answer the following questions.

a) In terms of A , B , and C , how many atoms are there in C moles of molecules?

b) In terms of A , B , and D , how many moles of molecules can you get from D atoms?