Value: **25** extra credit points in test category

Document must be completely and correctly done for credit. **NO partial credit** will be awarded.

Requirements:

1. Create an exam review
    a. Reproduction quality
    b. Instructions must be written followed the problem
    c. Must include 2 problems of different types from each section listed on back.
    d. Total number of problems should be **50**
2. Create a solution guide (separate from review)which includes
    a. Problem
    b. All steps for solution with answer clearly marked and/or
    c. A clear explanation of the concept
3. Create another page with
    a. The review problem's number
    b. Where the problem was found (page number and problem number, other source, or your own creation)
    c. Listing as to the problem's level of difficulty (easy, moderate, hard)
4. A page stating that this is your own work with your signature.
5. General requirements:
    a. Must be your own choice and work
    b. Must be publishable
    c. Fifteen or less problems may be odd problems from the textbook
    d. Level of difficulty (Do not claim that they are all hard ☹)
        i. Fifteen or less easy
        ii. Fifteen or more hard
    e. No partial credit (all or none)
6. Due on 10-08-13 at the beginning of the block. NO LATE work accepted.

Section Topics:

- Determine the quadrant that the angle lies in
- Determine co-terminal angles
- Convert angles to degree measure
- Convert angles to radian measure
- Determine Arc Length using $\theta=s/r$
- Determine six trig functions from given information
- Approximate the value of the trig function to 3 decimal places
- Real World Problems involving Right Triangles
- Determine the missing angles, side lengths, and area using Law of Sines
- Determine the missing angles, side lengths, and area using Law of Cosines
- Determine the number of solutions using the Ambiguous Case of the Law of Sines
- Real World problems using the area of non-right triangles
- Describe all transformations in graphing the trig functions
- Graphing trig functions
- Verifying Trig Identities
- Solve trig equations without technology
- Solve trig equations with technology
- Determine corresponding points in polar mode
- Determine distance between points in polar mode
- Graph polar functions by hand
- Convert polar coordinates to rectangular coordinates
- Determine the resultant vector graphically
- Determine the resultant vector algebraically
- Determine the resultant vector from 3D coordinates
- Determine the cross product and dot product of vectors