Quiz 2

Complex Analysis

Name: ________________________________

Date: ________________________________
Time Begun: __________________________
Time Ended: __________________________

Monday February 2
Ron Buckmire

Topic: Solution of a Complex Polynomial Equation

The idea behind this quiz is to provide you with an opportunity to illustrate your facility with complex roots.

Reality Check:

EXPECTED SCORE: __________/10       ACTUAL SCORE: __________/10

Instructions:

1. Once you open the quiz, you have 40 minutes to complete it.

2. You may use the book or any of your class notes. You must work alone.

3. If you use your own paper, please staple it to the quiz before coming to class. If you don’t have a stapler, buy one.

4. After completing the quiz, sign the pledge below stating on your honor that you have adhered to these rules.

5. Your solutions must have enough details such that an impartial observer can read your work and determine HOW you came up with your solution.

6. Relax and enjoy...

7. This quiz is due on Wednesday, February 4, in class. NO LATE QUIZZES WILL BE ACCEPTED.

Pledge: I, ____________________________, pledge my honor as a human being and Occidental student, that I have followed all the rules above to the letter and in spirit.
1. (6 points). Find all the solutions of \( z^2 + (2i - 3)z + 5 - i = 0 \) and write them in rectangular form \( a + bi \).

2. (4 points). Show that \( z_1 = 2 - 3i \) and \( z_2 = 1 + i \) solve the above equation and write them in exponential form.