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## Complex Analysis

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Name:			
Date: Time Begun: Time Ended:		Monday Fe Ron	bruary 2 Buckmire
Topic: Solution of a Complex	Polynomial l	Equation	
The idea behind this quiz is to provide roots.	you with an	opportunity to illustrate your facility w	ith complex
Reality Check:			
EXPECTED SCORE :	_/10	ACTUAL SCORE :	/10
Instructions:  1. Once you open the quiz, you have	e 40 minutes	to complete it.	
2. You may use the book or any of y		-	
3. If you use your own paper, please have a stapler, buy one.			f you don't
4. After completing the quiz, sign th to these rules.	e pledge beld	ow stating on your honor that you ha	ave adhered
5. Your solutions must have enough and determine HOW you came up		÷	l your work
6. Relax and enjoy			
7. This quiz is due on Wednesd ACCEPTED.	ay, Februa	ry 4, in class. NO LATE QUIZZES	WILL BE
Pledge: I,student, that I have followed all the rule			Occidental

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.