

ADVISORY NO. 025, S. 2016

In compliance with DepEd Order No. 8, s. 2013

This Advisory is issued for the information of all Public and Private Secondary Schools
February 18, 2016

3RD MPC MATH INVITATIONAL INTER-HIGH SCHOOL COMPETITION

In celebration of the 9th anniversary of the Alpha Numeric Club and in the success of implementation, the club will hold its **3rd MPC Math Invitational Inter- High School Competition**. In relation to this, they are inviting students from both public and private secondary schools within and alongside of Marikina City to participate in the said activity on February 27, 2016 from 8:00am to 5:00pm at MPC Activity Center.


The competition primarily aims to obtain the following objectives:

1. to enhance the logical skills of students in Mathematics;
2. to develop their intellectual and social abilities through friendly competition;
3. to honor and publicly recognize the students with outstanding Mathematical skills;
4. to foster and encourage understanding, fellowship, solidarity, peace, goodwill, cooperation, mutual respect and self-reliance among the different schools within and alongside of Marikina City.

Interested schools/students may contact the personnel in charge at mobile number 09482165373 for inquiries and pre-registration. Also, they must secure parent's permit and submit their names to the Division Office **Attention: Mrs. Bernadette I. Berber, EPS- Math** for the preparation of authority to travel.

Attached herewith is the letter from Mr. Marlon C. Altiche, Head of the Student Organizations and Publications for reference.

For:

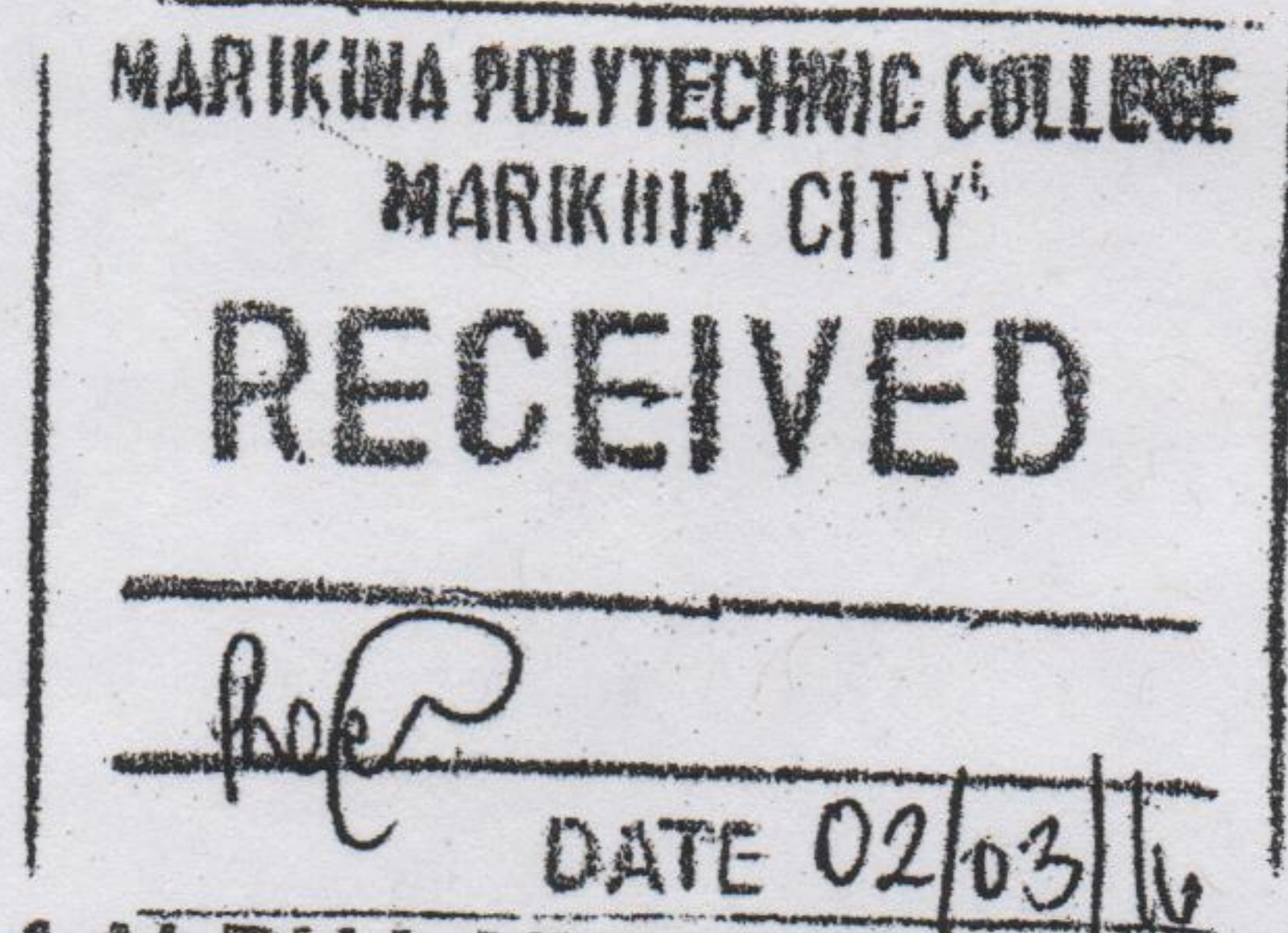

DR. ROMMEL C. BAUTISTA, CESO V
Schools Division Superintendent



OFFICE OF THE STUDENT ORGANIZATIONS AND PUBLICATION

February 2, 2016

DR. VIRGINIA D. BACAY
 OIC-President
 This College



I am pleased to submit the herein proposal and request of **ALPHA NUMERIC CLUB (ANC)** which include the following:

MPC MATH INVITATIONAL INTER-HIGH SCHOOL COMPETITION

- ✓ To conduct **MPC MATH INVITATIONAL INTER-HIGH SCHOOL COMPETITION** on February 27, 8:00AM - 5:00PM at the Activity Center
- ✓ Borrow Philippine and MPC flags with poles and stand, rostrum, and 150 chairs.

Attached herewith are letter, permit to conduct an activity form, and other details of the said activity received February 1, 2016; signed by its President-**JOHN MARK E. MARCES**, noted/attested by its adviser-**MRS. MA. ELENA A. MAGCALEN**.

Respectfully,

MR. MARLON C. ALTICHE 2/02/16
 Head, Student Organizations and Publication

Recommending for Approval:

MRS. PAG-ASA EMERITA A. MIRANDA
 Director, Student Affairs

DR. LUNA G. MADERA
 OIC-Vice President for Academic Affairs

Approved:

DR. VIRGINIA D. BACAY
 OIC-President
 OIC-President



**OFFICE OF THE STUDENT ORGANIZATIONS
 AND PUBLICATION**

REQUEST FOR PERMIT TO CONDUCT AN ACTIVITY

ON-CAMPUS ACTIVITY
 OFF-CAMPUS ACTIVITY

1. TITLE OF THE ACTIVITY / THEME MPC Math Invitational Inter-high School Competition		
2. DATE February 27, 2016	3. TIME 8:00 AM to 5:00 PM	4. VENUE Activity Center
5. EXPECTED PARTICIPANTS All interested high school students		
6. PRESIDENT / COORDINATOR / VICE CHAIRMAN Marces, John Mark E.		7. CONTACT # 09482165373
8. VICE PRES. / ASST. COORDINATOR / VICE CHAIR. Cahiga, Mark Christian		9. CONTACT # 09101956240
10. FACULTY / MODERATOR / ADVISER Engr. Maria Elena Magcalen		11. CONTACT # 09321960507

Submitted by:

Marces, John Mark

Attested:

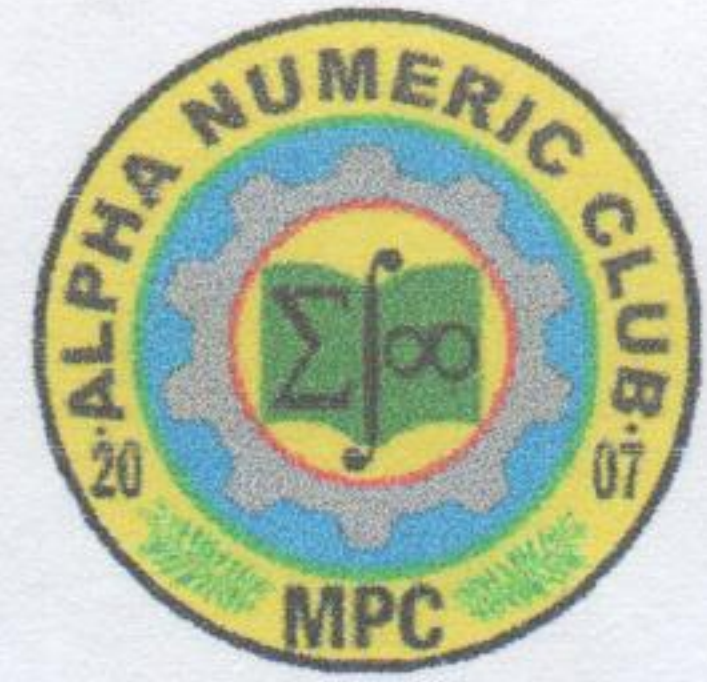
Engr. Maria Elena Magcalen
 Faculty/Moderator/Adviser

Recommending for Approval:

MR. MARLON C. ALTICHE 4/02/16
 Head, Student Organizations and Publication

MRS. PAGASA EMERITA A. MIRANDA
 Director, Student Affairs 4/2/16

Approved:



Alpha Numeric Club

I. NATURE

The MPC MATH INVITATIONAL INTER-HIGH SCHOOL COMPETITION 2016 is a Mathematics contest intended for secondary students in both public and private high schools within and alongside the City of Marikina. It is instigated by the Alpha Numeric Club, a Mathematics organization of Marikina Polytechnic College.

II. OBJECTIVES

The general objective of the MPC MATH INVITATIONAL INTER-HIGH SCHOOL COMPETITION 2016 is to contribute in improving the quality of Mathematics education within and alongside the City of Marikina. Specifically, it aims to:

1. enhance and develop the logical attributes and critical thinking of a student in Mathematics;
2. encourage and promote the intellectual faculties of the student through friendly competitions;
3. honor those students who are outstanding in their knowledge of mathematics through appropriate public recognition in their schools and communities;
4. foster and encourage understanding, fellowship, solidarity, peace, goodwill, cooperation, mutual respect and self-reliance among the different schools within and along Marikina; and
5. awaken greater interest in Mathematics among secondary students in both public and private schools within and along the City of Marikina.

III. COVERAGE

The topics in the grade nine and grade ten Mathematics under the K+12 Curriculum shall be the basis of coverage of the competition.

IV. QUALIFICATIONS

This competition shall be open to all high school students within and alongside the City of Marikina. Each of the participating schools is expected to send three bona fide students currently enrolled in their institution as junior or senior year level students.



Alpha Numeric Club

V. PROGRAMME

The competition is a whole day affair. Coaches will be provided with a seminar for his/her professional growth while the contest is on-going. The following shall be the flow of the competition:

8:00AM – 9:00AM	Registration
9:00AM – 10:00AM	Individual Category: Eliminations
10:00AM – 10:30AM	Break
10:30AM – 12:00NN	Individual Category: Finals
12:00NN – 1:00PM	Afternoon Break
1:00PM – 3:00PM	Team Category
3PM	Announcement of Winners

VI. PROCEDURE

A. BEFORE COMPETITION

REGISTRATION

- One can pre-register by sending a message to the club through this cellular number: 09482165373 on or before February 26, 2016.
- All contestants are advised to be on the contest venue thirty (30) minutes before the start of the contest program for registration in avoidance of unanticipated problems. The contest will be held at the Activity Center of the Marikina Polytechnic College.
- Contestants must bring with them their school ID.

B. DURING COMPETITION

- Participants will be joining two (2) competitions: Individual category and Group category.

INDIVIDUAL CATEGORY

1. WRITTEN PHASE : ELIMINATION ROUND

- The contest shall be a written examination.
- Top 25 contenders will be competing for the final round.

2. ORAL PHASE : FINAL ROUND

- In this round, questions will be read aloud by the quiz master.
- There shall be three (3) levels in this round. Easy, average and difficult will be consisted of 10, 7, 5 items respectively.
- Questions shall be asked with corresponding points depending on its level of difficulty.

7.5.15



Alpha Numeric Club

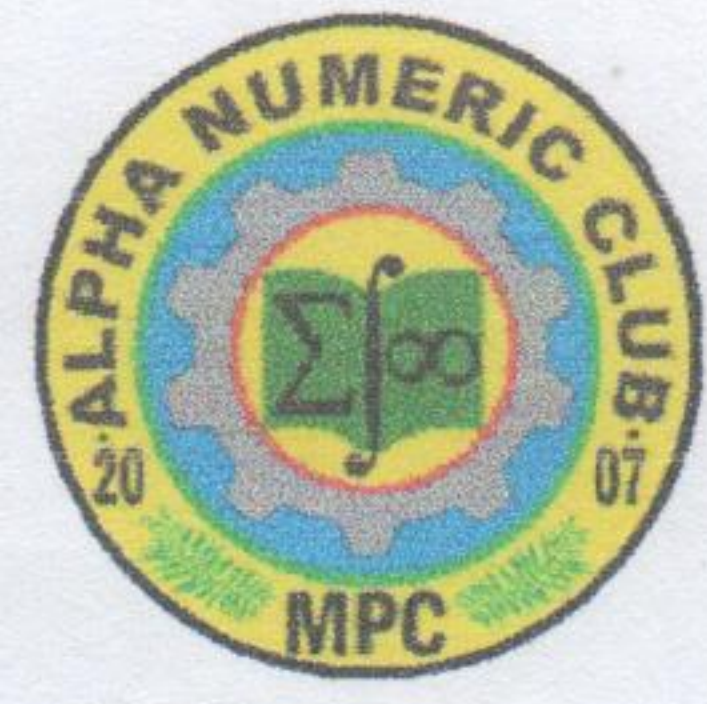
LEVELS OF DIFFICULTY

Easy	- 2 points	- 30 seconds
Average	- 3 points	- 1 minute
Difficult	- 5 points	- 2 minutes

- Contestants shall be given a strip of paper for their answers and scratch papers which shall be distributed by duly designated proctors before the course of the contest.
- For each level, the Quizmaster shall announce the time limit for each question.
- Each question shall be read twice and projected. The contestants must be required to provide their answer within the time limit.
- The designated proctors shall collect the strip of papers and submit it to the board of judges for assessment. The Quizmaster shall announce the correct answer.
- The Board of Judges is accountable in checking the answers and announcing the participants' team who will get the correct answer.
- Only final answers with correct spelling and unit will be considered. Answers must be in simplest form as possible. The answers must be written legibly. Each paper will be checked and double checked so as to ascertain the correctness of the scores.
- The scores will be tallied every after level of difficulty.
- The highest scorer shall be declared the winner. The second and third highest scorers shall be declared as the 1st runner-up and 2nd runner-up, respectively.
- In case of a tie, a tie breaking question will be given until the tie is broken.

TEAM CATEGORY

- Every participating school should join this category.
- Procedures and guidelines for the Team Category will be the same with the Oral Phase: Final Round of the Individual Category.



Alpha Numeric Club

C. AFTER COMPETITION

PROTESTS

- All protests will be handled and decided upon only by the Board of Judges. Their decision will be deemed final and irrevocable.

PRIZES AND AWARDS

- Participating students together with their coaches will automatically be given certificates of participation.
- Winners will receive medals and certificates of recognition for their school.

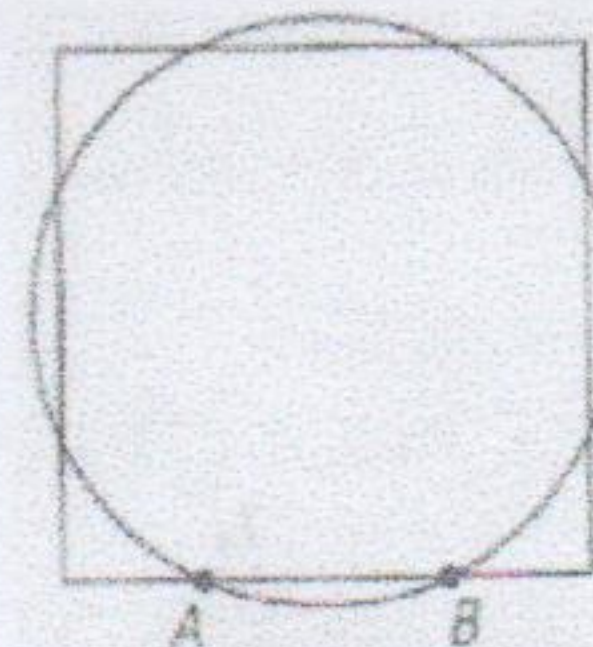
SAMPLE QUESTIONS:

1. The average of three numbers A, B, and C is x . If the average of A and B is y , what is the value of C?

Answer: $3x - 2y$

2. The circle and the square have the same center and the same area. If the circle has radius 1cm, what is the length of AB?

Answer: $\sqrt{4 - \pi}$ cm



3. Let $f(x) = \frac{b^x + b^{-x}}{b^x - b^{-x}}$, where $b > 0$ and $b \neq 1$. If $f(p) = 2$, then $f(2p) = ?$

Answer: $\frac{5}{4}$

4. Evaluate $\sin 67^\circ \sin 22^\circ + \sin 23^\circ \sin 68^\circ$.

Answer:

$\frac{1}{\sqrt{2}}$ or $\frac{\sqrt{2}}{2}$

5. If a line passes through the points $(-1/2, 1)$ and $(1, 2)$, what is its x-intercept?

Answer: -2

6. What's the area of a circle inside of which is inscribed a triangle with side lengths 5, 12, and 13?

Answer: 42.25π sq.u.