



Republic of the Philippines  
**Department of Education**  
 REGION III-CENTRAL LUZON

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**ADVISORY**

No. 038 s. 2020

To : **SCHOOLS DIVISION SUPERINTENDENTS**  
 From : **THE REGIONAL DIRECTOR**  
 Subjects : **PITAGORAS: TAGISAN NG GALING AT ORGANISADONG ABILIDAD SA SIPNAYAN, THE 12<sup>TH</sup> INTER-HIGH SCHOOL QUIZ BEE**


FEB 06 2020

1. Please be informed that the University of Santo Tomas Mathematical Society (UST MATHSOC) will conduct "PITAGORAS: Tagisan ng Galing at Organisadong Abilidad sa Sipnayan," the 12<sup>th</sup> Inter-High School Quiz Bee on **February 15, 2020**, at the **UST Main Building** from **7:30 AM - 12:00 NN** and at **Benavides Auditorium** from **1:00 PM - 5:30 PM**.
2. This competition is open to all junior high school and senior high school students from Luzon.
3. Each participating school may send a maximum of two teams with two members each.
4. The registration fees per team are as follows:
  - a. January 24, 2020 - Php 650.00;
  - b. January 25 - February 12, 2020 - Php 750.00; and
  - c. Walk-in participants - Php 800.00
5. The online registration form will be available until February 8, 2020. The link is posted on [fb.me/USTMathsocPitagoras](https://fb.me/USTMathsocPitagoras).
6. Attached are the letter of the UST MATHSOC President and contest mechanics.
7. For information.

**Schools Division Referral No. 024, s. 2020**

Respectfully referred to the school heads of public secondary schools and all others concerned, for information and guidance.

  
**MERLINA P. CRUZ, PhD, CESO VI**  
 Officer-in-Charge  
 Office of the Schools Division Superintendent

  
**NICOLAS T. CAPULONG, PhD, CESO V**  
 Director III  
 Officer-in-Charge  
 Office of the Regional Director



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# UNIVERSITY OF SANTO TOMAS

COLLEGE OF SCIENCE

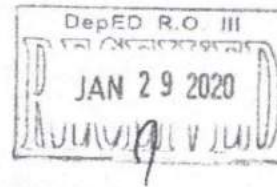
Mathematical Society



**JANUARY 22, 2020**

Department of Education

**SUBJECT: LETTER OF REQUEST FOR ENDORSEMENT**



Greetings!

The University of Santo Tomas Mathematical Society (UST MATHSOC), as an organization of all Actuarial Science students of the University of Santo Tomas aims to cater to the holistic development of its members and to promote Mathematics as a key to progress.

On **February 15, 2020**, University of Santo Tomas Mathematical Society will be conducting "PiTAGORAS: Tagisan ng Galing at Organisadong Abilidad sa Sipnayan," the 12<sup>th</sup> Inter-High School Quiz Bee, open to all junior high school and senior high school participants from Luzon. The 12<sup>th</sup> PiTAGORAS competition will be held on **February 15, 2020** at the **UST Main Building** from 7:30 AM – 12:00 NN and at the **Benavides Auditorium** from 1:00 PM to 5:30 PM.

Each participating school may be represented by a maximum of two teams, each with exactly two members. The online registration form will be available until February 8, 2020. The link is posted on [fb.me/USTMathsocPitagoras](https://fb.me/USTMathsocPitagoras). The registration fee until January 24, 2020 is Php 650 per team. From January 25, 2020 to February 12, 2020, the registration fee is Php 750 per team. The contest is open to walk-in participants provided they pass the complete requirements. The registration fee for walk-in participants is Php 800 per team. Winning teams shall obtain cash prizes, medals, and plaques.

Attached herewith is the contest mechanics. We are hoping for your favorable response on this matter.

Respectfully yours,

**Ira Dianne J. Caballero**  
President, UST MATHSOC







UNIVERSITY OF SANTO TOMAS  
COLLEGE OF SCIENCE  
Mathematical Society



## BASIC INFORMATION

**Name of the Organization:** University of Santo Tomas Mathematical Society  
(UST MATHSOC)

**Address:** Room 328A, 3rd Floor, Main Building, University of Santo Tomas, España Boulevard,  
Sampaloc, Manila, Philippines, 1015

**Contact Number:** 0999 308 7150 / 0917 567 3355

**Email Address:** [ustmathsoc@gmail.com](mailto:ustmathsoc@gmail.com) and [ustmathsoc.quizbee@gmail.com](mailto:ustmathsoc.quizbee@gmail.com)

**Social Media Sites:**

Facebook -- <https://facebook.com/ustmathematicalsociety/> and  
<https://facebook.com/USTMathsocPitagoras/>

Twitter - <https://twitter.com/ustmathsoc/>

## ABOUT THE ORGANIZATION

The **University of Santo Tomas Mathematical Society (UST MATHSOC)**, as an organization of all Actuarial Science students of the University of Santo Tomas aims to cater to the holistic development of its members and to promote Mathematics as a key to progress.

In line with this, the UST MATHSOC holds PiTAGORAS: Tagisan ng Galing at Organisadong Abilidad sa Sipnayan, an annual inter-high school Mathematics tournament open to all high schools in Luzon.

The UST MATHSOC serves the Thomasian community by holding projects such as The Math Path: Group Tutorials, formerly known as Alam-Math: Halina't Alamin ang Math, and Face The Math Challenge (FTMC). The Math Path aims to provide assistance in math subjects and occurs two Fridays before preliminary and final examinations. Face The Math Challenge aims to test the logical and analytical skills of Thomasian undergraduate students through time-pressured math questions.

In addition to these projects, the UST MATHSOC holds events that strengthen member relations and promote development beyond academics through LIMITLESS: Leadership Training Seminar and Palarong Sipnayan, the sports tournament between math organizations from different universities.

3/F Main Building, UST, España Boulevard, Sampaloc, Manila, Philippines, 1015  
Facebook: [fb.me/USTMathsocPitagoras](https://fb.me/USTMathsocPitagoras) | E-mail: [ustmathsoc.quizbee@gmail.com](mailto:ustmathsoc.quizbee@gmail.com)  
Facebook: [fb.me/ustmathematicalsociety](https://fb.me/ustmathematicalsociety) | E-mail: [ustmathsoc@gmail.com](mailto:ustmathsoc@gmail.com)





# PITAGORAS

## 12TH HIGH SCHOOL MATH TOURNAMENT

### I. General Details:

1. The contest will be held on February 15, 2020 at the University of Santo Tomas.
2. The timetable of the competition is specified in the table below.

	Time	Venue
Registration	07:30 AM - 09:00 AM	3rd Floor, UST Main Building
Elimination Round	09:00 AM - 11:30 AM	3rd Floor, UST Main Building
Break Time	11:30 AM - 01:00 PM	
Semi-final Round	01:00 PM - 03:00 PM	Benavides Auditorium
Final Round	03:00 PM - 05:00 PM	Benavides Auditorium
Awarding	05:00 PM - 05:30 PM	Benavides Auditorium

### II. Participants:

1. The contest is open to all junior high school and senior high school (Grade 7-12) students in Luzon.
2. Each school can send at most two (2) teams, each with exactly two (2) members.
3. School count will be based on the number of school principals.
  - a. An educational institution with the same school principal for junior high school and senior high school is considered as one (1) school. Therefore, schools under this classification may have a mix of junior high school and senior high school students within their team/s.
  - b. On the other hand, educational institutions with different school principals for junior high school and senior high school are considered as separate schools. Each may send a maximum of 2 teams that are:
    - i. composed exclusively of junior high school students; or
    - ii. composed exclusively of senior high school students.
4. A registration fee of PhP 750.00 per team is due upon registration. There will be no refund for no-shows.
5. Rules for Substitution:
  - a. Substitution can be done in case that a member of the team will not be able to come during the day of the contest.



# PITAGORAS

## 12TH HIGH SCHOOL MATH TOURNAMENT

- b. The substitute must bring the same requirements as the other regular members of the team; otherwise, substitution will be invalidated.
- c. Substitution can only be done at the beginning of the contest. The substitute must continue to play until the end of the contest. The regular contestant substituted by the alternate/substitute contestant cannot enter the contest anymore.
- d. Only a maximum of 1 substitute per school is allowed (if the school is sending only 1 team) and 2 substitutes allowed (if the school will be sending 2 teams).

### III. Topics covered:

1. Algebra and Trigonometry
2. Geometry
3. Number Theory
4. Combinatorics, Probability, Statistics
5. Random, Miscellaneous, Grab Bag

### IV. Contest Regulations:

1. Participants must be at the venue at the scheduled time.
2. Calculators, mobile phones, laptops, or other items that will cause cheating and dishonesty are NOT allowed in the testing room.
3. The contest consists of three rounds – the elimination round, the semi-final round and the final round.

#### Elimination round (Written test)

- A. Participants will individually answer a 30-item test within 90 minutes.
- B. Questions in the elimination round are divided into three (3) levels of difficulty – easy, moderate, and difficult. The distribution of questions is given as follows.

Level of Difficulty	Number of Questions
Easy	10
Moderate	10
Difficult	10





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## 12TH HIGH SCHOOL MATH TOURNAMENT

C. Participants must write their final answers, legibly, on the answer sheet provided by the organizers.

D. The team's score is the sum of the scores of its members.

E. The top 20 highest scoring teams advance to the semifinal round. In case of a tie, the following scheme will be applied to the tying teams to break the tie.

(i) The team with the most number of difficult questions answered advances to the semifinal round.

(ii) If a tie happens in (i), the team with the most number of "moderate" questions answered advances to the semifinal round.

(iii) If a tie happens in (ii), the tying teams advance to the semifinal round.

### Semifinal round (Written-oral competition)

A. Scores of the qualified teams from the elimination round will not be carried over to the semifinal round.

B. Teams will be arranged alphabetically.

C. Questions in the semifinal round are classified under three (3) categories – easy, moderate, and difficult. The distribution of questions is given as follows.

Category	Number of Questions
Easy Round (Mental)	5
Moderate Round	5
Difficult Round	5

D. Time limit depends on the question.

E. Each easy or moderate question will be projected on the front wall while being read by the quizmaster. Each difficult question will be typewritten on a strip of paper which will be distributed before it will be read by the quizmaster.

F. The quizmaster shall read each question twice and specify the allocated time for it. Timer starts after the quizmaster says "Go!" Refer to the table below to know when the contestants can start solving in the scratch paper in each round.

Level of Difficulty	When can a contestant start writing in the scratch paper provided?
Easy	(mental solving)
Moderate	While the quizmaster is reading the question
Difficult	Upon giving the strip with question



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## 12TH HIGH SCHOOL MATH TOURNAMENT

G. Each team must write their final answer on the provided whiteboard and raise their whiteboards when the allocated time ends. All answers must be expressed in simplest form (expressed in terms of  $\pi$ , in radical form, in rationalized form, etc.). Provide the appropriate unit if necessary.

H. Answers written on the whiteboard AFTER the allocated time shall not be recognized.

I. A proctor will be assigned to each participating team. A green flag will be raised by the proctor if the team's answer is correct. Otherwise, a red flag will be raised.

J. The top ten (10) highest scoring teams advance to the final round. In case of a tie, tie-breaker questions shall be given until only ten teams will proceed to the final round.

(i) Each question is worth one (1) point.

(ii) Time limit depends on the question.

(iii) Each team with the correct answer gets the point.

(iv) If the number of qualifying teams is still more than ten (10) after (iii), another tie-breaker question shall be given only to the teams who got the correct answer in the previous tie-breaker question. In case no one got the correct answer, all tying teams are qualified to answer.

### Final round (Written-oral competition)

A. The final round is in a jeopardy format.

B. Teams will be arranged alphabetically.

C. No score from the elimination and semifinal rounds will be carried over to the final round. The team with the highest score in the semifinal round will choose the first category and its question.

D. For selection of questions, the alphabetical order of schools, starting from the highest scoring team in the semifinal round, will be followed.

E. All teams in the final round have one-time use of Freeze-A-Team Power. They can only use this power during their turn to pick a question. Before the question is revealed, a white paper indicating the team number they choose to freeze will be raised by the team's proctor. The frozen team shall not be allowed to answer a certain question. They will automatically have a score of zero for that item.

F. No team shall be frozen more than once. Teams may or may not use this power throughout the competition.





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## 12TH HIGH SCHOOL MATH TOURNAMENT

G. Questions in the final round are classified under three (3) categories – easy, moderate and difficult. The distribution of questions is given as follows.

CATEGORY	TOPIC				
	Algebra and Trigonometry	Geometry	Number Theory	Combinatorics, Probability, Statistics	Random, Miscellaneous, Grab Bag
Easy (Mental)	2 questions	2 questions	2 questions	2 questions	2 questions
Moderate	2 questions	2 questions	2 questions	2 questions	2 questions
Difficult	2 questions	2 questions	2 questions	2 questions	2 questions

H. Time limit depends on the question.

I. Double Multipliers are randomly placed in three (3) out of the 30 questions. All teams with correct answers for each question with Double Multiplier will receive twice the original number of points for that question.

J. If a team uses their Freeze-A-Team Power in a Double Multiplier question, it will be considered void and will apply to the team's next turn.

K. Each easy or moderate question will be projected on the front wall while being read by the quizmaster. Each difficult question will be typewritten on a strip of paper which will be distributed before it will be read by the quizmaster.

L. The quizmaster shall read each question twice and specify the allocated time for it. Timer starts after the quizmaster says "Go!" Refer to the table below to know when the contestants can start solving in the scratch paper in each round.

Level of Difficulty	When can a contestant start writing in the scratch paper provided?
Easy	(mental solving)
Moderate	While the quizmaster is reading the question
Difficult	Upon giving the strip with question

M. Each team must write their final answer on the provided whiteboard and raise their whiteboards when the allocated time ends. All answers must be expressed in simplest form (expressed in terms of  $\pi$ , in radical form, in rationalized form, etc.). Provide the appropriate unit if necessary.

N. Answers written on the whiteboard AFTER the allocated time shall not be recognized.

O. A proctor will be assigned to each participating team. A green flag will be raised by the proctor if the team's answer is correct. Otherwise, a red flag will be raised.





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P. The top three scorers will be declared winners and will be awarded with prizes specified in Section VI. There should only be one team for each of the top three slots. In case of a tie in any of the top three slots, the tying teams will go into a "Sudden Death" round.

Q. In the Sudden Death round,

(i) Questions will be given until all ties are broken.

(ii) Each question will have an allocated time of sixty (60) seconds.

(iii) In each question, each team is given one chance to answer until the correct answer is given. The team to give the correct answer first wins.

### V. Point System (Elimination, Semifinal and Final rounds):

All items for the three rounds have the same scoring system. The scoring system is as follows.

Level of Difficulty	Number of Points
Easy	1
Moderate	3
Difficult	5

### VI. Prizes:

1. The individual participant(s) with the highest score in the elimination round will be awarded a medal and a certificate.
2. The top three scorers in the final round will be awarded as follows.

1st place	---	PhP 10,000 cash, medals, plaque
2nd place	---	PhP 5,000 cash, medals, plaque
3rd place	---	PhP 3,000 cash, medals, plaque

### VII. Complaints or Clarifications:

1. Only official contestants are allowed to raise complaints or clarifications.
2. Complaints or clarifications should be raised before the next question is read by the quizmaster (final round).



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## 12TH HIGH SCHOOL MATH TOURNAMENT

3. Complaints or clarifications should be directed only to the panel of judges.
4. Complaints or clarifications should only be raised when there is a dispute between the correct answer and the contestant's answer. Particularly, the complaint or clarification is specific only for the contestant's defense of his answer.
5. Clarifications regarding the rules shall be entertained by UST MathSoc Team Academics before the start of each phase of the contest. Also, changes in the rules made by the UST MathSoc Team Academics during the competition with the concurrence of the Board of Judges are considered valid.

### VIII. Grounds for Disqualification:

The UST PITAGORAS 2018 organizing committee reserves the right to disqualify any participating teams for inappropriate actions during the contest. The list of possible offenses that can be committed by a participating contestant or their coach includes, but is not limited to, the following.

#### 1. Cheating

Looking sideways (on another contestant's answers), possessing cheat codes and formula sheets, copying answers from other contestants, using codes or codenames (physical and verbal), and the likes are discouraged in the contest. If caught by any of the member of the UST MathSoc Executive Team or PITAGORAS 2019 officials, the concerned contestants will receive punishments.

#### 2. Inappropriate coaching

Shouting answers from the audience or teaching of answer by the coaches makes the present question discarded. In case that a coach is caught teaching answers on the contest proper. The team being held by the said coach will receive the punishments in consensus with the decision of the contest's officials, Board of Judges, and UST MathSoc Team Academics.

#### 3. Use of any electronic gadget

The use of any technological equipment to gain advances against the other teams is a big offense. Cellular phones, calculators (of any type), palm computers and the likes will be confiscated if caught and will be returned only after the contest proper. Cellular phones will not be confiscated and are allowed to be used only during break hours or if with permission in accordance with the decision of the UST MathSoc Team Academics and the contest's officials.

#### 4. Failure to follow instruction (Semifinal Round and Final Round)

In case a contestant decides to answer before the quizmaster says "Go!", or if they continue writing answers even after the time allotted has passed, the contestant will receive punishment.





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The following punishments will be imposed to the participants will commit any of the offenses above:

1st Warning : Verbal Warning

2nd Warning : Disqualification from the contest

### 5. Misbehavior

Any form of misbehavior to be committed by the contestants will not be tolerated. As the contest is being held inside the University of Santo Tomas, the participants must abide by the rules and regulations of the university and must follow the Thomasian rules of conduct to prevent conflict as well with the university's standards. Misbehavior of any contestant during the contest as determined by the officials is sufficient condition for the disqualification.

### Registration Process and Requirements

*Registration Process and Requirements.* To register for the competition, each participant must be listed on the online registration form to be filled out by the participating school. The link to the online registration form is:

[tiny.cc/12thPITAGORAS](http://tiny.cc/12thPITAGORAS)

After completing the online registration form, you will receive a notification via email or SMS that you have successfully registered online. The other requirements include:

- a. Registration Fee (P750.00 per team)
- b. Photocopy of Enrollment Form or School ID per member

You can scan and send the above requirements through e-mail on [ustmathsoc.quizbee@gmail.com](mailto:ustmathsoc.quizbee@gmail.com) on or before February 12, 2020. For the registration fee, you can send it to any of the following bank accounts:

Chinabank

Carl Joaquin F. Soria

101702031932



# PITAGORAS

## 12TH HIGH SCHOOL MATH TOURNAMENT

BDO

Ira Dianne J. Caballero

002100417661

BPI Savings

Ian Dior J. Caballero

1899907716

Once you have sent your registration fee on the bank account, kindly send a picture of the deposit slip through e-mail. You will receive via e-mail an electronic response that we received your payment.

Note: Once payment is done by the participating teams, they cannot back-out on the contest anymore or refund their registration fees. Also, payment can be done on a two-part basis. In this case, participating teams have to pay P400.00 at first and pay the remaining amount during the day of the contest.

If requirements could not be sent through e-mail, then the participating schools must bring the said requirements on the day of the contest itself. Students must also bring their *valid school IDs* and must wear their *school uniform* during the contest.

### On-site Registration and Payment

*On-site Registration.* Participating schools that were not able to send their requirements before the deadline of registration and decided to register on the day of the contest itself are accepted and allowed to join as long as they have the **complete requirements** with them (refer to registration process and requirements) and the registration fee of **P800.00** per team. In case they don't have registration forms with them, forms will be issued by 8:00 AM on the ground floor of UST Main Building at the same day.

*On-site Payment.* Participating schools that have registered and submitted the requirements beforehand and decided to pay on the day of the contest itself must pay the registration fee of **P800.00** per team.





# PITAGORAS

12TH HIGH SCHOOL MATH TOURNAMENT

## Contact Details

If you have any inquiries, kindly contact us:

### **Ally S. Landrito**

Executive Secretary, UST Mathematical Society

Mobile: 0917-567-3355

### **Ralph Willis L. Turbanos**

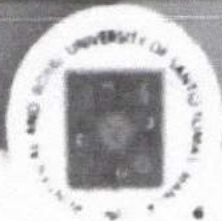
Vice President for Communication, UST Mathematical Society

Mobile: 0917-711-4873

Or you can send us an e-mail at [ustmathsoc.quizbee@gmail.com](mailto:ustmathsoc.quizbee@gmail.com).

You can also like, post, or send us a message on our Facebook page: [www.facebook.com/USTMathsocPitagoras](http://www.facebook.com/USTMathsocPitagoras)

Also, like our UST MathSoc's Facebook page: [www.facebook.com/ustmathematicalsociety](http://www.facebook.com/ustmathematicalsociety)



**UNIVERSITY OF SANTO TOMAS**  
**OFFICE FOR STUDENT AFFAIRS**

In Pursuant to the Provisions of  
the Rules and Procedures for Recognition

THIS

*Certificate of Recognition*

IS GRANTED TO

**UST Mathematical Society**

**LEVEL II with Accreditation Number RSO-A-19-20-138**

As a student organization  
with all the rights and privileges  
accorded to it by the pertinent provisions of the  
University of Santo Tomas Student Handbook  
and circulars issued by this Office.

**EFFECTIVE FROM SEPTEMBER 1, 2019 TO MAY 10, 2020**

**ASSOC. PROF. MA. SOCORRO S. GUAN HING, DNM, RN**

*[Signature]*  
Director  
Office for Student Affairs

