



THE INDIAN COMMUNITY SCHOOL KUWAIT – KHAITAN

Dear Parent,

We are glad to inform you that K-RAYS, our exhibition of projects on Science, Mathematics, Social Science, English, Hindi, French, EVS, Computer Science, Art, Music, Dance, Arabic, Islamic Studies and Sports is going to be re-launched after a gap of two years. It is going to be organized on Thursday, 17th October, 2019 from 04:00 pm to 08:00 pm in our campus. All students from LKG to XI are expected to participate as it is going to be a rich learning experience for them. It will also provide an opportunity for innovative thinking. The participation is optional for class X and XII students.

A child may submit minimum 1 project and maximum of 2 individually or as a team. These projects shall be considered as their SEA (Subject Enrichment Activity) for that respective subject. Marks shall be awarded for the same. A child doing a project in a particular subject is exempted from the vacation assignment of that subject. Class wise/ subject wise topics are suggested along with the vacation assignments below.

All projects are to be submitted to the concerned subject teachers after the vacation. The best 10 projects from each class shall be selected, to be exhibited in K-RAYS. Class wise best 3 projects will be awarded prizes.

Please note:

- The student has to submit the vacation assignments on his/her first reporting day after the vacation. Any delay in this shall be penalized by deducting 1 mark per day.
- The project/ exhibit should be an original work done by an individual student or a team of maximum 4 students.
- As far as possible, innovative working models should be submitted, mere charts/still models will not be preferred.
- Commercially available models will not be allowed unless it is an integral part of the exhibit.
- Highly inflammable materials, any unsafe apparatus or device will not be allowed.
- First submission of the K-Rays projects is on 10th September, 2019.
- In case your ward's project is selected, you may make any modification, or prepare any supporting materials (charts, ppt. etc) if required, before the exhibition.

Thanking you.

With best regards,

Principal

26 /05/2019



THE INDIAN COMMUNITY SCHOOL KUWAIT

CLASS X -ENGLISH HOLIDAY ASSIGNMENT 2019

1. Write a film review of any movie you had watched. Narrate the main incidents. Support with pictures of the cast and production team.
2. Read a newspaper every day and select at least one main news of your interest. Stick the cut outs of the reports with pictures. (30 News items).
3. Select any 5 poets and 5 authors. Study about their works. Stick their pictures; write a short biography mentioning their important works, their achievements and awards.
4. Cursive writing – 30 pages- for chosen students whose handwriting needs to be improved. (The assignments should be neatly handwritten and submitted in a folder).

Project-Book Review – Class X

Format:

1. Title of the Book
 2. Author of the Book: Who has written the book?
 3. Best Selling Information: Was the book a top-selling book – under what category?
 4. Genre: Does the book come under the category of Fiction or Non Fiction?
Fiction includes: Classic, Comic/Graphic Novels, Fantasy, Crime/Detective, Mystery, Mythology, Science Fiction, Suspense/Thriller etc.
Non-Fiction includes: Biography/Autobiographies, Narrative Nonfiction, Essays etc.
 5. Name of the Publisher
 6. Achievements: Has the book won any awards/achievements? Has the author won any awards for the book? In what year?
 7. About the Author:
 8. Summary:.
 9. Plot details:
 10. Setting: Where has the book been set – historical moment in time/ geographic location? At what time/what year/season? This helps initiate the main backdrop and mood for the story.
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HINDI ASSIGNMENT FOR CLASS- X - 2019

1. अप्रैल से मई तक पढ़ाया गया, पाठ्यक्रम याद करके आँ।

2. पत्र लेखन-

- (i) विद्यालय के प्रधानाध्यापक जी को तरणताल बनवाने संबंधी पत्र लिखिए ।
- (ii) बैंक अधिकारी को नया खाता खोलने के लिए नाम पत्र लिखिए ।
- (iii) अपने क्षेत्र के पास नया बस स्टैंड बनवाने का अनुरोध करते हुए परिवहन निगम के प्रबंधक जी को पत्र लिखिए ।
- (iv) दिल्ली में महिलाओं के प्रति बढ़ रहे अपराधों के कारणों का उल्लेख करते हुए करते समाचार पत्र के सम्पादक जी को पत्र लिखिए ।

3. अनुच्छेद लेखन -

- (i) कंप्यूटर का बढ़ता प्रयोग संकेत बिन्दु - 1. कंप्यूटर का नवीनतम रूप, 2. कंप्यूटर का बढ़ता प्रचलन, 3. कंप्यूटर के विविध उपयोग, 4. कंप्यूटर से सावधानिय
- (ii) युवाओं के लिए मतदान का अधिकार -- संकेत बिन्दु:- 1. मतदान का अधिकार क्या और क्यों ? 2. जगरुकता 3. आवश्यकता 4. सुझाव ।
- (iii) शारीरिक शिक्षा और योग - संकेत बिन्दु 1. अर्थ एवं महत्त्व 2. शारीरिक शिक्षा और योग 3. प्रभाव और अच्छे परिणाम
- (iii) आँखों देखी दुर्घटना- संकेत बिन्दु 1. कहाँ और कैसे 2. दुर्घटना की गम्भीरता 3. आपके द्वारा किया गया योगदान
- (iv) भारत की सांस्कृतिक एकता - संकेत बिन्दु 1. अनेकता में एकता 2. हमारे पर्व और त्योहार 3. एकता के संदेशवाहक 4. सांस्कृतिक एकता का अर्थ।
- (v) का आधार - अनुशासन - संकेत बिन्दु 1. अनुशासन का जीवन में महत्त्व 2. विकास अनुशासन की शिक्षा 3. अनुशासन का प्रतीक : प्रकृति।

4. संवाद लेखन -

- (i) क्रिकेट मैच के बारे में दो मित्रों के बीच संवाद लिखिए ।(50 से 60 शब्दों में)
- (ii) नौकर व मालिक के बीच पैसे बढ़ाने को लेकर होने वाला संवाद लिखिए ।(50 से 60 शब्दों में)
- (iii) दो मित्रों अमित और अतुल के बीच सैर और व्यायाम की आवश्यकता को लेकर होने वाली बातचीत को संवाद के रूप में लिखिए । (50 से 60 शब्दों में)
- (iv) दो महिलाओं के बीच बढ़ती हुई कीमतों पर संवाद लिखिए।(50 से 60 शब्दों में)

(v) पिता ओर पुत्र के बीच ग्लोबल - वार्मिंग को लेकर होने वाली बातचीत को संवाद के रूप में लिखिए । (50 से 60 शब्दों में)

5. विज्ञापन लेखन -

- (i) मारुति कार की कंपनी के लिए एक आकर्षक विज्ञापन तैयार कीजिए । (50 शब्दों में)
- (ii) आप स्कूल के बच्चों के लिए योग कक्षा आरम्भ करने जा रही हैं। इस उद्देश्य से विज्ञापन तैयार कीजिए
- (iii) घर किराए पर देने के लिए विज्ञापन तैयार कीजिए ।
- (vi) हिन्दी कोचिंग कक्षा के लिए विज्ञापन तैयार कीजिए ।

6. सूचना लेखन -

- (i) इंडियन कम्यूनिटी स्कूल में कला प्रतियोगिता के आयोजन की जानकारी के लिए छात्र अध्यक्ष की ओर से सूचना - पत्र तैयार कीजिए (20-30 शब्दों में)।
- (ii) अपने इलाके की सड़कों की साफ़-सफ़ाई के प्रति लोगों को सचेत करते हुए 20-30 शब्दों में सूचना-पत्र तैयार कीजिए।
- (iii) आप किसी संस्थान में प्रबन्धक के पद पर कार्यरत अतुल वर्मा हैं आपने अपना आवास परिवर्तित कर लिया है , नए आवास का पता देते हुए 20-30 शब्दों में सूचना-पत्र तैयार कीजिए।
- (iv) पाठशाला के प्रधानाचार्य की ओर से पाठशाला के समय में किए जाने वाले परिवर्तन संबंधी में सूचना 20-30 शब्दों तैयार कीजिए।

7. अपठित गद्यांश व अपठित पद्यांश का अभ्यास (विभिन्न हिंदी पत्रिकाओं या व्याकरणिक पुस्तकों को पढ़कर उनका प्रश्नोत्तर अभ्यास) ।

8. ग्रीष्मावकाश में व्यतीत किए किन्हीं दस दिनों को डायरी लेखन के रूप में लिखिए।

9. 'हिन्दी दिवस' समारोह हेतु चार्ट या मॉडल बनाकर लाएँ।

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FRENCH HOLIDAY ASSIGNMENT 2019-20
CLASS –X

I. Remplacez les mots soulignes avec les pronoms personnels

- a. J'ai donné les crayons aux étudiants.
- b. Nous voulons manger une glace dans cet hôtel.
- c. Il a raconté les histoires à ses amis.
- d. Ma sœur a acheté deux livres pour mon frère.
- e. Regarde ces bouquets ! J'ai fait ces bouquets dans l'école.
- f. Ne donnez pas les livres aux amis.
- g. Nous achetons deux robes pour mes cousines.
- h. Ne téléphonez pas à Paul et Helene.
- i. Partagez vos nouvelles à vos parents !
- j. Mon père a rencontré ses amis au théâtre.

II. Répondez en utilisant les pronoms personnels.

- a. Allez-vous en France avec vos parents ?
Non,
- b. Montrent-elles leur devoir à leur professeur ?
Oui,
- c. As-tu mis toutes les lettres dans le sac ?
Non,
- d. Avez-vous beaucoup d'argent ?
Oui,
- e. Le gâteau au chocolat, est-il dans le réfrigérateur ?
Non,
- f. Denis Martin, plait-il beaucoup à sa mère ?
Oui,
- g. A-t-elle acheté les fleurs au marché ?
Non,
- h. Ont-ils pris la photo du concert ?
Oui,
- i. Parlez-vous de ce projet au patron ?
Non,
- j. Avez-vous vu les filles au théâtre ?
Oui,

III. Complétez avec les temps convenables

- a. Si on (faire) du déjeuner, on mange de la salade.
- b. Si j'avais beaucoup d'argent, j'(acheter) une villa.
- c. (savoir) bien vos leçons, si vous voulez avoir de bonnes notes.
- d. Tu (être) content, si tu gagnais a la loterie.
- e. Si j'étais riche, je (faire) un tour du monde.
- f. S'il faisait beau, nous (aller) a la campagne.

- g. Si j'avais un permis de conduire, j' (aller) au bureau en voiture.
- h. Si tu avais froid, tu (porter) un chandail.
- i. Si on vous donne de l'argent, comment (dépenser)-vous cet argent ?
- j. Je (irai) au cinéma si je suis libre.
- k. S'il vous plait, Monsieur, (montrer)-moi vos papiers.
- l. Si notre voiture pollue, il (falloir) l'emmener chez le mécanicien.
- m. Si nous allons dans les vignes, nous (cueillir) des grappes de raisins.
- n. S'il faisait beau, vous (aller) vous promener.
- o. (courir) vite si vous voulez gagner la course.

IV. Mettez aux négatives

- a. Il y a quelqu'un dans le salon.
- b. Je vais toujours au cinéma.
- c. Il mange encore du gâteau.
- d. Elle a beaucoup de choses pour jouer.
- e. Vous faites quelque chose ce dimanche.
- f. Pierre aime les bonbons et les gâteaux.
- g. M. Vincent invite tous ses amis pour la soirée.
- h. J'ai trouvé une erreur dans les comptes.
- i. Tout le monde a applaudi.
- j. J'ai déjà déjeuné.

V. Répondez en utilisant les expressions négatives:

- a. **As-tu encore ta vieille voiture?**
- b. Ont-ils déjà fini de manger?
- c. Allons-nous quelque part pendant les vacances?
- d. Mangez-vous des bonbons et des sucreries?
- e. Quelqu'un t'a promis ces billets?
- f. Manges-tu quelque chose avant de sortir de chez toi ?
- g. Tu rencontres toujours cette mauvaise personne?
- h. Quelqu'un t'a battu ce matin?
- i. Quelqu'un est venu vous voir ?
- j. As-tu bu de l' eau ?

BONNE CHANCE BON COURAGE

HOLIDAY ASSIGNMENT – SCIENCE PHYSICS

B1, B2 and B3 are three identical bulbs connected as shown in the figure. When all the three bulbs glow, a current of 3 A is recorded by the ammeter A.

- i) What happens to the glow of the other two bulbs when the bulb B1 gets fused?
- ii) That happens to the reading of A1, A2, A3 and A when the bulb B2 gets fused?
- iii) How much power is dissipated in the circuit when all the three bulbs glow together?

In a factory, an electric bulb of 500 W is used for 2 hours and electric motor of 0.5 horse power is used for 5 hours everyday. Calculate the cost of using the bulb and motor for 30 days if cost of electrical energy is three rupees per unit.

For the circuit shown in the following diagram:

What is the value of: i) Current through $6\ \Omega$ resistor? ii) Potential difference across $12\ \Omega$ resistor?

You are given three resistance of 1, 2 and 3 ohms. Show by diagrams, how with the help of these resistances you can get: i) $6\ \Omega$ ii) $6/11\ \Omega$ iii) $1.5\ \Omega$

- a) What is a magnetic field? How can the direction of magnetic field lines at a place be determined?
- b) State the rule for the direction of the magnetic field produced around a current carrying conductor. Draw a sketch of the pattern of field lines due to a current flowing through a straight conductor.

The diagram shows two straight wires carrying current. Copy the diagram and draw the pattern of field lines around them and mark their directions. Find the magnetic field strength at its centre

An electron enters a uniform magnetic field at right angles to it as shown in the figure. In which direction will this electron move? State the principle applied by you in finding the direction of motion of the electron.

CHEMISTRY

1. A compound which is prepared from gypsum has the properties of hardening when mixed with proper quantity of water. Identify the compound. Write the chemical equation for its preparation. Mention one important use of it.
2. A white substance having a strong smell of chlorine is used to clean water storage tanks. Identify the substance. Give its chemical name and write the chemical reaction for its preparation
3. What is baking powder? What is the role of tartaric acid in it?
4. Using electron dot structure explain the formation of the following compounds.
1. Calcium fluoride 2. Magnesium oxide 3. Sodium oxide
5. Explain electrolytic refining with the help of a neat diagram
- 6. Explain the extraction of metals in the middle of the activities series taking an example**
7. What is thermite reaction? Give the equation
8. Write the equations for the extraction of mercury and copper from its sulphide ores
9. Give reasons.

1. Platinum, gold and silver are used to make jewellery
2. Aluminium is a highly reactive metal, yet it is used to make utensils for cooking
3. Reaction of nitric acid with metals does not evolve nitrogen gas
10. Differentiate between ores and minerals

BIOLOGY

- i) Describe the internal structure of human heart with the help of diagram.
- ii) Write the difference between aerobic and anaerobic respiration.
 - i) Define excretion. Draw and label the parts of the human excretory system and the functional unit of kidney.
 - ii) List four conditions required for efficient gas exchange in an organism.
 - i) Show in tabular form the names of endocrine glands, hormones secreted by them and their functions.
 - ii) Why are some patients of diabetes treated by giving injections of insulin?
 - Design an experiment to demonstrate hydrotropism and phototropism
 - Why is vegetative propagation practiced for growing some types of plants?
 - Explain with diagrams the two different asexual methods by which hydra reproduce and how they differ.

HOLIDAY ASSIGNMENT – SOCIAL

I. Answer the Following in One sentence:

1. Why did Gandhiji take up the Khilafat issue?
2. What are the two types of minerals according to occurrence in igneous and metamorphic rocks?
3. Who is a feminist?
4. In which states over grazing is responsible for land degradation?
5. How much representation do local governments provide for women in India?
- II. Answer the Following briefly:
 1. How did the First World War create a new economic situation in India?
 2. Why did non-cooperation movement slow down in cities?
 3. Evaluate any three steps for conservation of Energy resources. Explain.
 4. Write any three differences between Primitive and Subsistence method of farming.
 5. Explain the idea of Satyagraha according to Gandhiji.
 6. What are the three sectors of economy? Examine each with examples.
 7. Examine the three factors which are crucial in deciding the outcome of politics of social division.
 8. “In our country, women still lag much behind men despite developments despite seven decades of Independence. Examine.
 9. Give any three reasons to show that power sharing is desirable in a democracy?
 10. What is resource planning? Why resource planning is essential in India.

III. Answer the following in detail.

1. Describe the incident and impact of the Jallianwala Bagh.
2. Explain any five socio-economic changes responsible for breaking down the old notion of caste hierarchy in India.
3. “It is not politics that gets caste ridden, it is the caste that gets politicised”.

Analyse.

4. Explain briefly the different mode of occurrences of minerals.
5. What is decentralization? State any four provisions that have been made towards decentralization in Indi after the constitutional amendment of 1992.

HOLIDAY ASSIGNMENT – MATHEMATICS

1. Find the largest number which divides 245 and 1029 leaving remainder 5 in each case.
2. A shopkeeper has 120 litres of petrol, 180 litres of diesel and 240 litres of kerosene. He wants to sell oil by filling the three kinds of oils in tins of equal capacity. What should be the greatest capacity of such a tin?
3. Show that $(n^2 - 1)$ is divisible by 8, if n is an odd positive integer.
4. Find the quadratic polynomial where sum and product of the zeros are a and $1/a$.
5. If α and β are the zeros of the quadratic polynomial $f(x) = x^2 - x - 4$,
find the value of (i) $\frac{1}{\alpha} + \frac{1}{\beta} - \alpha\beta$ (ii) $\alpha^4\beta^2 + \alpha^2\beta^4$
7. If two zeros of the polynomial $x^4 - 6x^3 - 26x^2 + 138x - 35$ are $2 \pm \sqrt{3}$, find the other zeros.
8. What must be added to $6x^5 + 5x^4 + 11x^3 - 3x^2 + x + 5$ so that it may be exactly divisible by $3x^2 - 2x + 4$
9. Solve the following system of equation graphically.
 $x + 2y = 1$, $x - 2y = -7$, also read the points from the graph where the lines meet the x-axis and y-axis.
10. Solve $23x - 29y = 98$ and $29x - 23y = 110$.
11. A man has only 20 paise coins and 25 paise coins in his purse. If he has 50 coins in all totaling Rs 11.25. How many coins of each kind does he have?
12. A says to B "my present age is five times your that age when I was an old as you are now. If the sum of their present ages is 48 years, find their present ages.
13. A boat goes 30 km upstream and 44 km downstream in 10 hours. In 13 hours it can go 40 km upstream and 55 km downstream. Determine the speed of the stream and that of the boat in still water.
14. For what value of 'a' the system of linear equations $a.x + 3y = a - 3$, $12x + a.y = a$ has no solution.
15. Find the values of 'a' and 'b' for which the following system of linear equations has infinite number of solutions. $2x + 3y = 7$, $(a + b + 1)x + (a + 2b + 2)y = 4(a + b) + 1$
16. Solve for 'x' and 'y' where $x + y = a - b$, $ax - by = a^2 + b^2$
17. A leading library has a fixed charge for the first three days and an additional charge for each day there after Sarika paid Rs. 27 for a book kept for seven days, while Sury paid Rs.21 for the book she kept for five days, find the fixed charge and the charge for each extra day.

18. Abdul travelled 300 km by train and 200 km by taxi, it took him 5 hours 30 minutes. But if he travels 260 km by train and 240 km by taxi he takes 6 minute longer. Find the speed of the train and that of the taxi.

19. BL and CM are medians of ΔABC right angled at A. Prove that

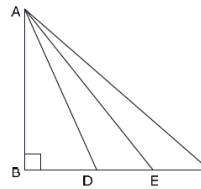
$$4(BL^2 + CM^2) = 5BC^2$$

20. ABC is a right triangle right angled at C. Let $BC = a$, $CA = b$, $AB = c$ and let p be the length of perpendicular from C on AB, prove that

$$(i) cp = ab \quad (ii) \frac{1}{p^2} = \frac{1}{a^2} + \frac{1}{b^2}$$

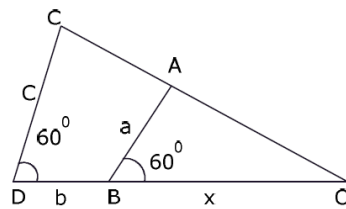
21.

In figure, a triangle ABC is right-angled at B. side BC is trisected at points D and E, prove that $8AE^2 = 3AC^2 + 5AD^2$



22.

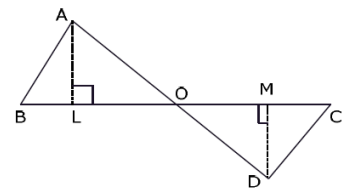
In figure, express x in terms of a, b, c.



23.

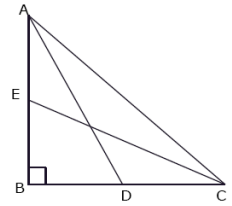
In figure, ABC and DBC are two triangles on the same base BC. If AD intersect EC at O, prove that

$$\frac{\text{ar}(\Delta ABC)}{\text{ar}(\Delta DBC)} = \frac{AO}{DO}$$



24.

In figure, ABC is a right triangle right-angled at B. Medians AD and CE are of respective lengths 5 cm and $2\sqrt{5}$ cm, find length of AC.



25. Given that $\sin(A + B) = \sin A \cdot \cos B + \cos A \cdot \sin B$, find $\sin 75^\circ$.

26. If $3 \tan \theta = 4$, find the value of $\frac{4 \cos \theta - \sin \theta}{2 \cos \theta + \sin \theta}$.

Prove $\sin^4 A + \cos^4 A = 1 - 2 \sin^2 A \cos^2 A$

27.

If $\sec \theta = x + \frac{1}{4x}$, prove that $\sec \theta + \tan \theta = 2x$ or $\frac{1}{2x}$.

28.

If $\sin \theta + \cos \theta = \sqrt{2} \sin(90 - \theta)$, determine $\cot \theta$.

29.

Prove $\frac{1}{\cos \theta \cot A - \cot A} - \frac{1}{\sin A} = \frac{1}{\sin A} - \frac{1}{\cos \theta \cot A + \cot A}$

30.

If $x = a \sin \theta$, $y = b \tan \theta$, prove $\frac{a^2}{x^2} - \frac{b^2}{y^2} = 1$

31.

If $\frac{\cos \alpha}{\cos \beta} = m$ and $\frac{\cos \alpha}{\sin \beta} = n$, show that $(m^2 + n^2) \cos^2 \beta = n^2$

32.

Evaluate $\frac{\cos 70^\circ}{\sin 20^\circ} + \frac{\cos 55^\circ \cdot \cos 35^\circ}{\tan 5^\circ \cdot \tan 25^\circ \cdot \tan 45^\circ \cdot \tan 65^\circ \cdot \tan 85^\circ}$

33.

Evaluate

$\cos(40^\circ - \theta) - \sin(50^\circ + \theta) + \frac{\cos^2 40^\circ + \cos^2 50^\circ}{\sin^2 40^\circ + \sin^2 50^\circ}$

34.

Prove that $\frac{\sin\theta - \cos\theta + 1}{\sin\theta + \cos\theta - 1} = \frac{1}{\sec\theta - \tan\theta}$ using the identity $\sec^2\theta = 1 + \tan^2\theta$

35. $(\sin\theta + 1 + \cos\theta)(\sin\theta - 1 + \cos\theta)\sec\theta \operatorname{cosec}\theta = 2$

36. $\sqrt{\frac{\sec\theta - 1}{\sec\theta + 1}} + \sqrt{\frac{\sec\theta + 1}{\sec\theta - 1}} = 2 \operatorname{cosec}\theta$

37. Prove that $\sin^8\theta - \cos^8\theta = (1 - 2\cos^2\theta)(1 - 2\sin^2\theta\cos^2\theta)$

38. $2(\sin^6\theta + \cos^6\theta) - 3(\sin^4\theta + \cos^4\theta) + 1 = 0$

39. If $\sec\theta + \tan\theta = m$, show that $\frac{m^2 - 1}{m^2 + 1} = \sin\theta$

40.

A man standing on the deck of a ship, which is 10 m above the water level, observes the angle of elevation of the top of a hill as 60° and the angle of depression of the base of the hill as 30° . Calculate the distance of the hill from the ship and the height of the hill.

41.

A boy is standing on the ground and flying a kite with 100 m of string at an elevation of 30° . Another boy is standing on the roof of a 20 m high building and is flying his kite at an elevation of 45° . Both the boys are on the opposite sides of both the kites. Find the length of the string that the second boy must have so that the two kites meet.

42.

An aeroplane flying horizontally 1 km above the ground is observed at an elevation of 60° . After 10 seconds, its elevation is observed to 30° . Find the speed of the aeroplane in km/hr.

43.

The angles of elevation of the top of a tower from two points P and Q at distances of a and b respectively from the base and in the same straight line with are complementary. Prove that the height of the tower is \sqrt{ab} , where $a > b$.