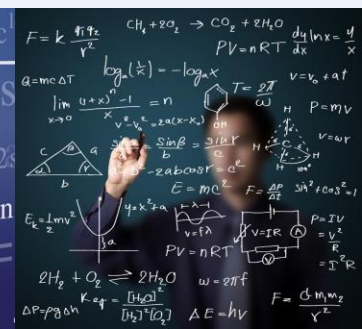
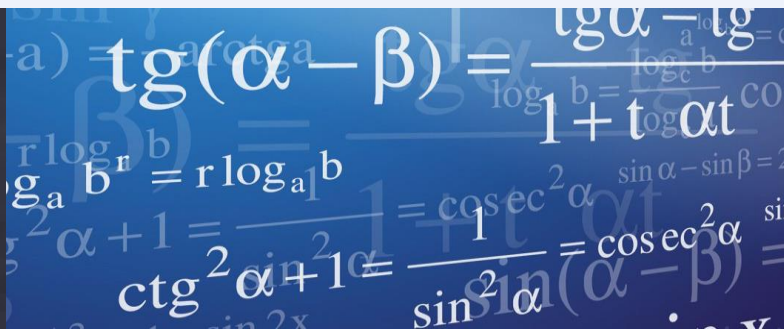


EDB Center of Excellence – Profession Development Program
教育局資訊科技卓越教學中心 – 教師專業發展活動

Information Technology in Mathematics Education

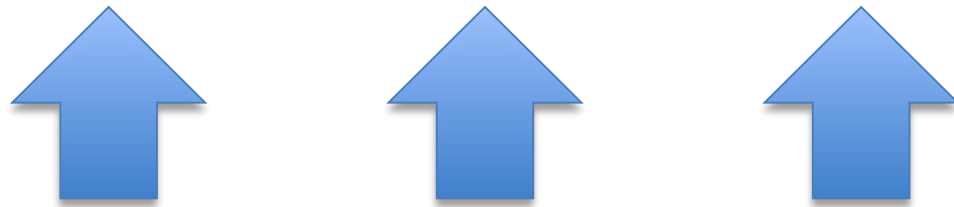
運用資訊科技於數學教育

Tsung Tsin College
Mr. Kok Yam Nam, William
Mr. Wu Man On, Joseph



Pedagogies & Instructions

1. Concepts Teaching
2. Examples Demonstration
3. Calculation Practices
4. Feedback



Information Technologies



Screen Mirroring



TeamViewer

快速存取

Know How Tall IFC Is? angle of elevation.p... 您在过去一天内打开过

To Use Tablet Computer in Secondary Mathematics Education 運用平板電腦於中學數學教育 Mathematics Shari... 您在过去一天内打开过

S4-Ch5.pdf 您在过去一周内打开过

angle of elevation n... 您修改过

Know How Tall IFC Is angle of elevation.p... 您过去去打开过

資料夾

- Academic Committee
- Appraisal Form
- Caleb
- CoE
- Computer Panel
- Curriculum Reform
- EDB STEM Workshop
- EDB STE...orkshop (1)
- Form Meeting
- General
- GoodNotes Backup
- IT Committee
- Mac Desktop File
- Maths Panel
- My first g...responses)
- my first g...responses)
- Others Files
- PDF Photos App
- School Praise Team
- Socrative Reports
- Software
- Staff Meeting
- STEM Cur...ommittee
- Students Mark
- Students Name List
- TTC Innopod
- ZZZFamily Photos
- 信仰分享
- 學校發展小組
- 崇真書院升中宣傳

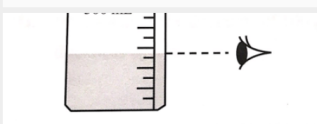
新媒體資...技素養計劃

檔案

- Chapter 4 More about Polynomials Warm-up Exercise
- Chapter 4 More about Polynomials Warm-up Exercise
- Chapter 4 More about Polynomials Warm-up Exercise
- Chapter 4 More about Polynomials Warm-up Exercise
- Chapter 4 More about Polynomials Warm-up Exercise
- Chapter 4 More about Polynomials Warm-up Exercise
- Chapter 4 More about Polynomials Warm-up Exercise
- Chapter 4 More about Polynomials Warm-up Exercise
- BKA_ch4_con_e.doc
- BKA_ch4_con_e.pdf
- Compoun...erest.docx
- Compoun...interest.pdf
- factor theorem 1.docx
- factor theorem 1.pdf



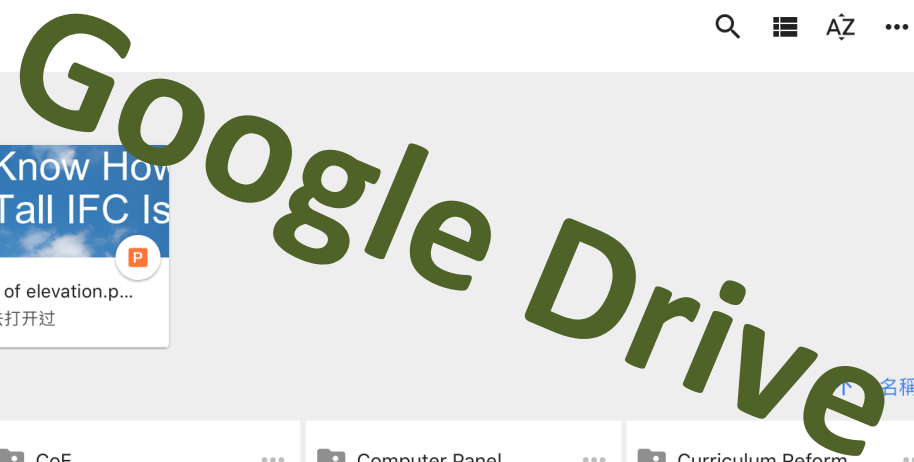
Net chargeable income
\$40 000



1. 把這本練習冊放在 Windows 10 電腦桌面的快捷方式欄。 關閉 Windows 7，已安裝程序清單中顯示所有已安裝的應用程式。
2. 選擇這本練習冊內有一年，如有任何課程的技術問題或技術支持問題，請與技術支援人員聯絡。
3. 聯絡技術支援人員時，如有任何技術支援人員的問題，請與技術支援人員聯絡。
4. 聯絡技術支援人員時，如有任何技術支援人員的問題，請與技術支援人員聯絡。

詳情請參閱...

1. 詳情請參閱...
2. 詳情請參閱...
3. 詳情請參閱...
4. 詳情請參閱...



類別

S4 mathematics

編輯

Write On PDF

類別

- 未分類
- S3 mathematics
- S4 mathematics
- 垃圾桶

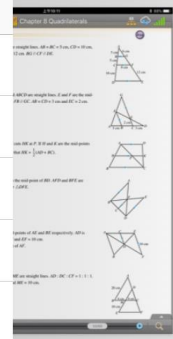


Image (5)
昨日 上午10:51

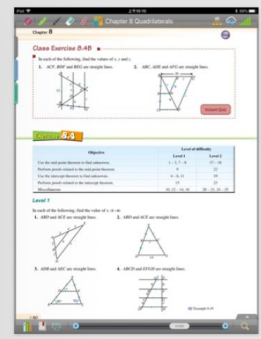


Image (4)
昨日 上午10:43

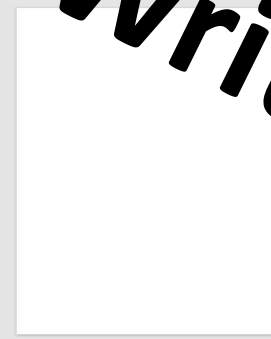


Image (3)
昨日 上午10:15

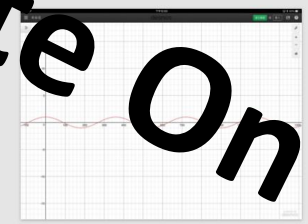


Image (2)
昨日 上午9:12

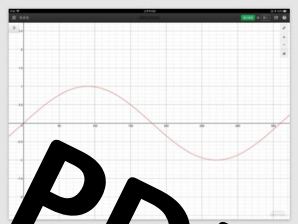
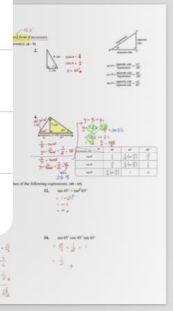
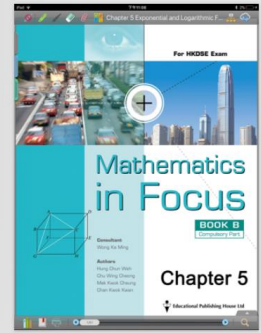


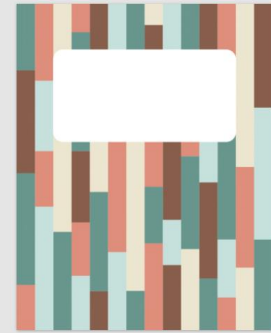
Image (1)
2018年3月2日 上午11:55



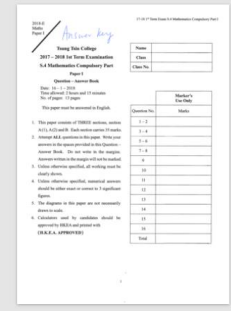
Chapter 6 Trigonometry
warmup exercise
2018年2月28日 下午12:31



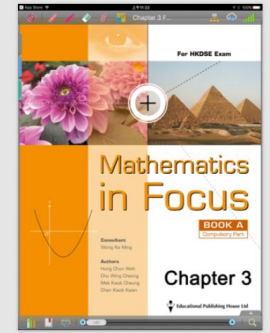
S4-Ch5
2018年2月26日 下午12:28



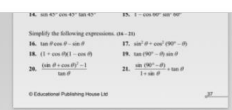
筆記本 (5)
2018年1月18日 上午10:45



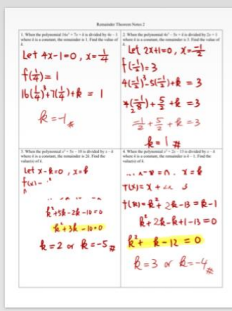
math1718 S4 1ST EXAM
P1(answer)
2018年1月18日 上午9:31



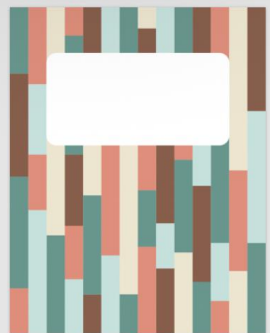
S4 Chapter 3
2018年1月15日 下午3:43



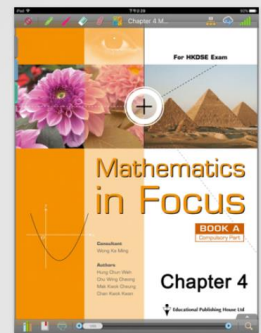
BkB_ch06_con_e
2018年3月2日 上午8:54



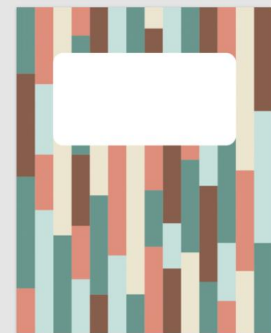
Remainder Theorem Notes
2
2018年1月15日 下午3:40



筆記本 (4)
2018年1月15日 下午3:33



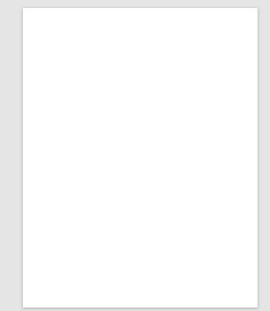
S4 Chapter 5 (2)
2018年1月10日 下午3:31



筆記本 (3)
2017年12月20日 上午11:46



MATH_1617_S4_EXAM1_P2_QUESTION_AND_ANSWER
2017年12月12日 上午11:24



新檔案
2620171128083620235
2017年12月8日 下午2:34

(a) $\log (x + 2) - \log (x + 1) = \log 3$

$$\log \frac{x + 2}{x + 1} = \log 3$$

$$\frac{x + 2}{x + 1} = 3$$

$$x + 2 = 3x + 3$$

$$2x = -1$$

$$x = \underline{\underline{-\frac{1}{2}}}$$



我的文檔

我的文檔 (34)

$1 = 0$

$a = 1$

$MN = \log_a M + \log_a N$

$\frac{M}{N} = \log_a M - \log_a N$

$M^k = k \log_a M$, for any real M

新檔案 34
18-02-06 11:13

3. Round off the following numbers to 3 significant figures.

(a) 4125 (b) 53.672 (c) 0.734 (d) 0.012 96 (e) 52.965 1 (f) 1.998 8

(g) 4215 + 222.000 (m = 1 sig. fig.) (h) 51.675 + 22.200 (m = 1 sig. fig.) (i) 0.734 + 2.22 (m = 1 sig. fig.) (j) 0.012 96 + 0.011 2 (m = 1 sig. fig.) (k) 52.965 1 + 1.998 8 (m = 1 sig. fig.)

4. Round off 0.023 395 to (a) 1 significant figure, (b) 2 significant figures, (c) 3 significant figures, (d) 4 significant figures.

5. Round off 0.023 395 to (a) 1 significant figure, (b) 2 significant figures, (c) 3 significant figures, (d) 4 significant figures.

新檔案 33
18-01-19 14:18

中文電腦教育 中文輸入法筆記 (第一部份)

姓名: _____ 班別: _____

建國輸入法自學書網址: <http://www.sz2000.com/helystudy/>
中文輸入法教學網址: <http://resources.edu.hk/lapwax/>

學習重點

1. 認識書寫輸入法和相關的觀念。
2. 學習書寫 24 個字序，包括：
(1) 聲母韻 (2) 聲母韻 (3) 字聲韻 (4) 字聲韻

一、認識書寫輸入法和相關的觀念
書寫輸入法的原理，係根據「聲、韻、母」，只要我們懂得將中文字以特定規則排列，然後將之組合，便可以輸入一個漢字。

新檔案 32
18-01-15 15:48

1. In the figure, $AB \parallel DE$, BF and CD are straight lines, $\angle BAC = 17^\circ$, $\angle ABE = 28^\circ$ and $\angle CDE = 23^\circ$. Prove that CF is an altitude of $\triangle ACE$.

2. In the figure, P and Q are points on AC and BC respectively such that BP and AQ are altitudes of $\triangle ABC$. AQ and BP intersect at O . If $\angle AOP = 34^\circ$ and $\angle BOP = 28^\circ$, find $\angle C$.

3. In the figure, P and Q are points on AC and BC respectively such that BP and AQ are altitudes of $\triangle ABC$. AQ and BP intersect at O . If $\angle AOP = 34^\circ$ and $\angle BOP = 28^\circ$, find $\angle C$.

新檔案 31
17-12-21 14:08

$y = 15x^2 - 63x + 7$

新檔案 30
17-12-19 08:27

Staff Deployment (Dec 14, Dec 2012)

請將下列表格填妥，以便學校安排工作。

姓名	英文姓名	性別	科目	日期	備註
1	CHAN CHING BANG	陳國彬	女	X	
2	CHAN JANG CHING	陳國強	女	X	
3	CHAN YEE YAN	陳麗珍	女	X	
4	CHAN YIN YI	陳紅霞	女	X	
5	HOANG WING BEA	黃麗珍	女	X	
6	LAU JIN HOI	劉金輝	女	X	
7	LAM HOE SHAM	林潔瑩	女	X	
8	LEUNG HEI KI	梁麗英	女	X	
9	LO HO	盧浩	男	X	
10	LO YIM YIM	盧麗珍	女	X	
11	LUO SIU HEI	羅子嫻	女	X	
12	TRANG YIM YING	鄧玉珍	女	X	
13	FATSI MAN CHI	馮敏如	女	X	
14	WANG LOR YEE	黃麗英	女	X	
15	WONG HUI TING	黃慧婷	女	X	
16	WONG YI HANG	黃麗英	女	X	
17	WONG YIP CHEUNG	黃國強	男	X	
18	CHAN YIM YIU	陳志英	男	X	
19	CHENG CHU LAM	鄭國輝	男	X	
20	CHENG CHEN FAL	鄭國輝	男	X	
21	CHRIS BARR CHING	鄭國強	男	X	
22	CHOW CHAN YIM	周國強	男	X	
23	CHOW YIM CHING	周國強	男	X	
24	PUNG WING YIM	馮國強	男	X	
25	SHAM CHING WU	岑國強	男	X	

新檔案 29
17-12-07 14:54

Meaning section: How clear/ing enhances self-directed learning and teaching effectiveness

Please complete and return the questionnaire to us for future reference. Please blacken the circles and / or provide information in the space where appropriate.

1. Content on the workshop:

	Max	5	4	3	2	1	Min
(a) Overall, I was satisfied with this workshop.	0	0	0	0	0	0	0
(b) The objective(s) of the workshop was/were achieved.	0	0	0	0	0	0	0
(c) The content was relevant to the topic of the workshop.	0	0	0	0	0	0	0
(d) Overall, the speaker(s)/facilitator(s) were effective.	0	0	0	0	0	0	0
(e) The knowledge gained could be applied to my teaching.	0	0	0	0	0	0	0

2. What are the things you appreciate from the workshop? Anything you enjoy? Anything you find inspiring?

新檔案 28
17-12-04 10:06

Agreement List (2008/2009) - Sheet 08 - 2012/2013

請將下列表格填妥，以便學校安排工作。

No.	English Name	Chinese Name	School Name	Sub-Type	Sign-in	Sign Out
17	LO SHING MEI	盧麗英	SHING SHING CATHOLIC CHURCH	SECONDARY	<i>Li</i>	
18	LIAI HOI BIN	呂佩儀	CANTON ST JOSEPH SEC. SCH.	SECONDARY	<i>Poly</i>	
19	LUNG CHEI KI	龍子強	SEC HUI CHH SECONDARY SCHOOL	SECONDARY	<i>07</i>	
20	MAK HO YAN	麥浩源	MAK DAVID YUWONG PO COLLEGE	SECONDARY	<i>Choi</i>	
21	MAK LING	麥靜	CAMMEL DUNN CHURCH CONVENTION SEC. SCH.	SECONDARY		
22	MAK HANG TAO THOMAS	麥成滔	HO FROG CHAMBER OF COMMERCE SEC. SCH.	SECONDARY	<i>Li</i>	
23	WU BIK FUN ANGEL	伍式芬	CANTON SHAMWEE ASSOCIATION SEC. SCHOOL	SECONDARY	<i>Li</i>	
24	WU WAI LING	伍佩玲	WONG WING TRULIE LIGHT COLLEGE	SECONDARY	<i>Li</i>	
25	FAL SIK KIN	馮錫賢	SHA TIN GOVERNMENT SECONDARY SCHOOL	SECONDARY	<i>Li</i>	
26	TAL YIM PAN	譚麗英	NICHOLA BLOOMSBURY LEUNG CHOW WAI COLLEGE	SECONDARY	<i>Li</i>	
27	WONG HOI YAN	黃麗英	HO LUI SECONDARY SCHOOL	SECONDARY		

新檔案 27
17-11-29 15:24

rcise 4.2 (p.168)

quotient = $2x^2 - x + 3$, remainder = 0

quotient = $3x - 2$, remainder = -1

quotient = $-3x - 4$, remainder = -3

quotient = $-x^2 + 2x - 3$, remainder = 2

quotient = $2x - 2$, remainder = -1

quotient = $4x - 6$, remainder = -11

Staff Deployment (Dec 14, Dec 2012)

No.	English Name	Chinese Name	School Name	Sub-Type	Sign-in	Sign Out
1	CHAM TSE YAT	陳子德	SEC HOI YAN COLLEGE	SECONDARY	<i>Li</i>	
2	CHAM WING YEE	陳錦儀	SEC HOI YAN SECONDARY SCHOOL	SECONDARY	<i>Choi</i>	
3	CHAM YING YIU	陳國強	PUL CELINE HO YAN SECONDARY SCHOOL	SECONDARY	<i>Choi</i>	

Section Quiz 5.2

1. The figure shows a right circular cone of base diameter 12 cm and height 14 cm. Express the volume of the cone in terms of x .

Base radius of the cone = $(12 \div 2)$ cm = 6 cm (1M)

Volume of the cone = $\frac{1}{3} \times 6 \times 6 \times 14$ cm³ (1M)

新檔案 26
17-12-04 10:06

Section Quiz 5.1

1. The figure shows a pyramid $FABCD$ of height 9 cm. Its base is a square of side 5 cm. Find the volume of the pyramid. (2 marks)

Volume of the pyramid = $\frac{1}{3} \times (5 \times 5) \times 9$ cm³ (1M)

= 75 cm³ (1M)

2. The figure shows a frustum $ABCDEFGH$. The upper base of the frustum is a rectangle of length 4 cm and width 3 cm. The lower base is a rectangle of length 6 cm and width 4 cm. The height of the frustum is 5 cm. Find the volume of the frustum. (2 marks)



1718 4A Mathematics: 2017-2018 Academic Year

Tsung Tsin College

All Materials

Chapter 1 Quadratic Equations in One Unknown (I)

Text Book Exercise Detail...

Teaching Videos

Notes and WorkSheets

Text Book PDF

Chapter 2 Quadratic Equations in One Unknown (II)

9/19/17 12:00a

E-Book

9/19/17 12:00a

Class Notes

9/19/17 12:00a

Chapter 3 Functions and Graphs

11/07/17 12:00a

E-book

ClassNotes

Chapter 5 Exponential and Logarithmic Functions

EBook

Teaching Videos

Find a place to
store the learning
resources

Upcoming



Materials

Updates

Gradebook

Attendance

Members

+ New

My Library

Sort: AZ Search my lessons

Learning Assessment

test2
by Yam Nam, William ttc...
Oct 23, 2017 2 Mb

Inequality
by Yam Nam, William ttc...
Oct 23, 2017 1 Mb

Section Quiz 2.1
by Yam Nam, William ttc...
Jun 27, 2017 1 Mb

Symmetry and Tra...
by Yam Nam, William ttc...
Apr 2017 6 Mb

How To Plan and Rebuild A Highly Effective IT Infrastructure
Unsaved
test
by Yam Nam, William ttc...
Mar 30, 2017 3 Mb

新媒體素養教育
核心課：網絡法義
Unsaved
網絡法義
by benetwise MCC
Feb 14, 2017 6 Mb

Ch.0 Basic Mathematics
Short Quiz
Unsaved
Directed Number...
by Yam Nam, William ttc...
Jan 12, 2017 6 Mb

Unsaved
Untitled Lesson
by Yam Nam, William ttc...
Jan 12, 2017 0 Mb

1. Complete the following table.
Draw It
Percentage Revisi...
by Yam Nam, William ttc...
Mar 9, 2016 1 Mb

	Decimals	Percentage
(a)		19.2%
(b)	19/50	

What is the ratio of areas of the similar solids?
Draw It
Similar Solids
by Yam Nam, William ttc...
Dec 9, 2015 1 Mb

The 5th term and the 6th term of -2, -5, -8, -11, ... are:
Draw It
Sequence
by Yam Nam, William ttc...
Oct 14, 2015 0 Mb

New Trend Mathematics (Second Edition)
Chapter 7
More about Percentages
S3B
Unsaved
S3 Chapter 7
by Yam Nam, William ttc...
Oct 5, 2015 2 Mb



1 of 6

 TEAM BLUE

Have Some
Fun In The
Lesson

Which of the following is smaller than -5.3 ? Question 1

A. -5

B. $-5\frac{1}{4}$

C. $-5\frac{1}{3}$

D. 0

 zoom

A

B

C

D

SUBMIT ANSWER

1 $y = a(x - h)^2 + k$

2 $a = 1$

3 $h = 1$

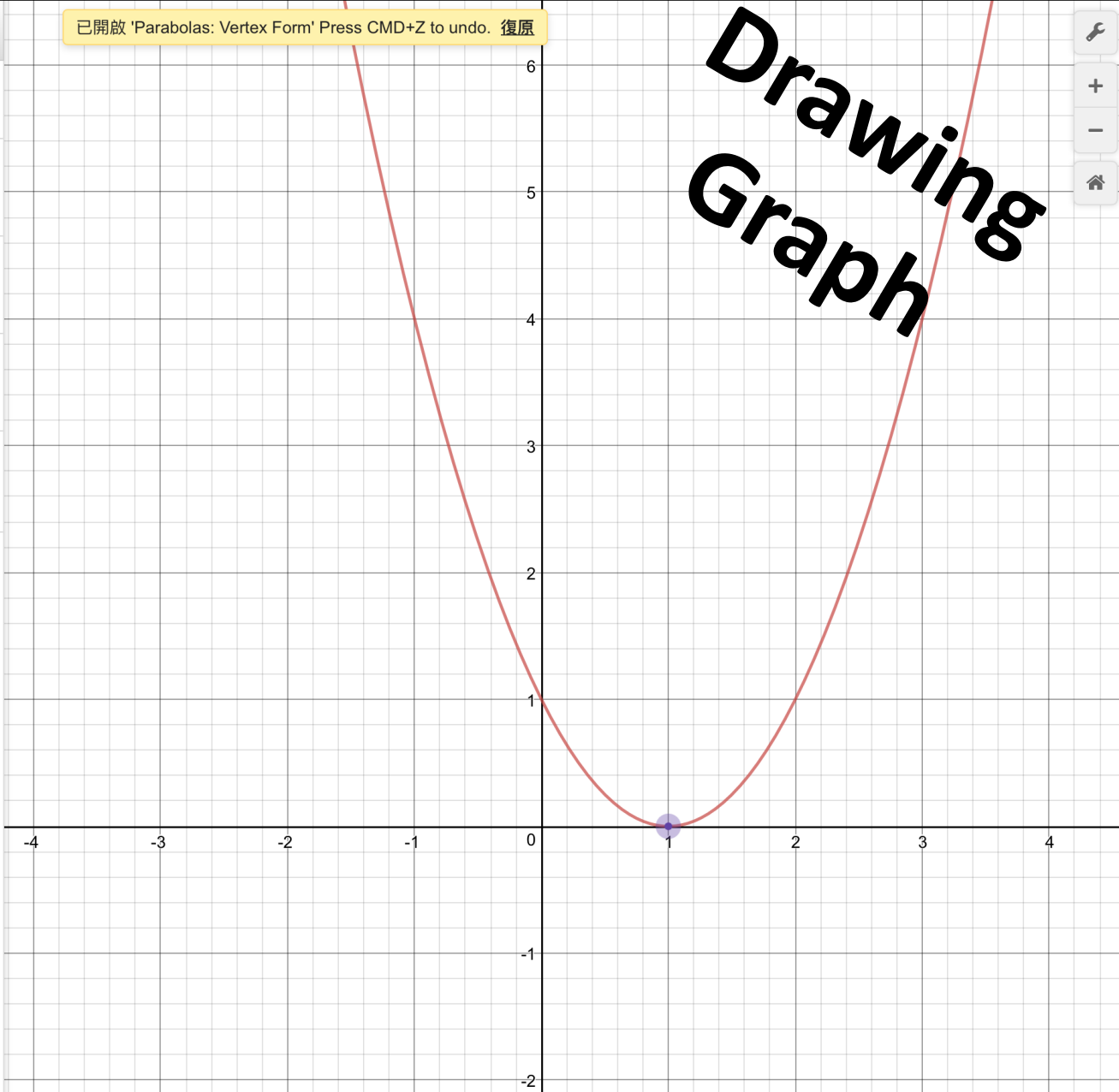
4 $k = 0$

5 (h, k)

6 Label

已開啟 'Parabolas: Vertex Form' Press CMD+Z to undo. 復原

Drawing Graph



Rotational Symmetry of Cube

Drag the red points on the top and the bottom of the cube to investigate its rotational symmetry.

Centres of Faces Mid-points of Edges

Rotate the cube about the axis

0°

Demonstration that any cuboid can be split into three pyramids of any volume.

Cube Split cuboid

Length Width Height

Rotate

Volume = 6.9
Volume = 6.9
Volume = 6.9

Helpful Tools

3D Nets

Edward Knot

1. Cylinder and Prism
2. Pyramids and cones
3. Platonic Solids

Nets of 3d figures

Table of Contents

1. Cylinder and Prism
 1. Net of a Cube
 2. Nets of the Cube
 3. Net of Hexagonal Prism
 4. 11 Nets of the Cube
 5. Net of a Cylinder
 6. Net of a Cylinder
2. Pyramids and cones
 1. Rectangular Pyramid
 2. Net of a Square Pyramid
 3. Net of a Cone
 4. Net of a Cone
3. Platonic Solids
 1. Nets of Tetrahedron
 2. Net of an Octahedron
 3. Another Net of Dodecahedron
 4. Net of Dodecahedron
 5. Net of Icosahedron

GeoGebra

Net of a Cone

1. Net of a Square Pyramid
2. Net of a Cone
3. Classic net of the cube
4. Triangular Prism Net
5. Net of a Cylinder
6. Net for a Rectangular Prism
7. Net of a Cone

$r = 3$

$h = 5.8$

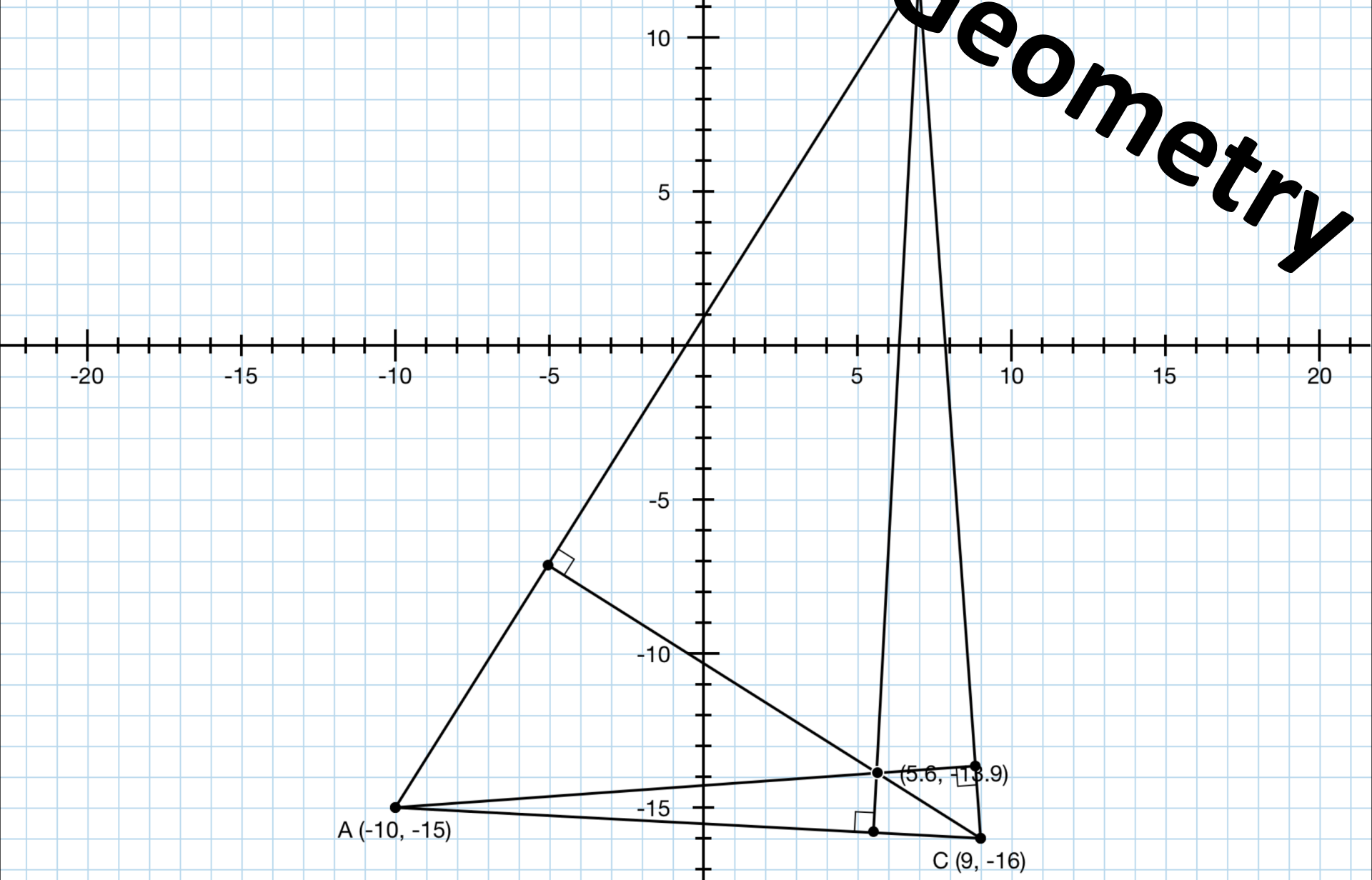
Formula

Net

Slant h

GeoGebra - GeoGebra Materials Team

Geometry





1 of 1

**Making
Video**

Choose Topic and Subtopic

Search Subtopics

Curriculum: HK Secondary S4-S5 Compul

Topic: Number and Algebra Review

Subtopic: Mixed questions on whole nu

Mixed questions on whole numbers

Questions

Outcomes

Create tabs

Print Preview

Evaluate 2^5 

Consider 68 and 12.

Evaluate $\frac{3^5}{3^2}$.

Dave can mash 3 potatoes in 6 minutes.



Sophia is splitting a number of students into groups for a treasure hunt. She has 25 boys and 35 girls and doesn't want any boys or girls left out.



Mae can iron 2 shirts in 8 minutes and squeeze 10 oranges in 30 minutes.

Evaluate $(-3)^4 \times (-5)^2$ Evaluate $44 - 17$ Evaluate $976 - 133$ Evaluate $283 + 931$ Evaluate $67 + 88$

Self-directed Learning





Do You
Know How
Tall IFC Is?



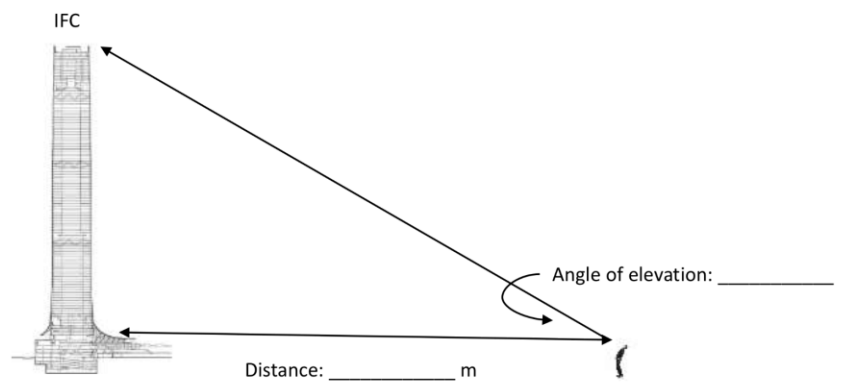
我的手電和尺

Virtual Reality



Angle of Elevation and Depression 仰角和俯角

A. Classroom Activity (Calculation the height of IFC):



1. Calculate the height of IFC. (Give your answer correct to nearest m)

2. What causes your calculation error?

- a. _____
- b. _____
- c. _____

Mathematics

Orienteering



Different Strategies of IT in Education

Locational-Based Learning System

- QR Code + Google Form...
- (Inquiry Based Learning)

Classroom Responses System

- NearPod
 - Socrative
 - Plickers...
- (Interactive T&L)

Learning Management System

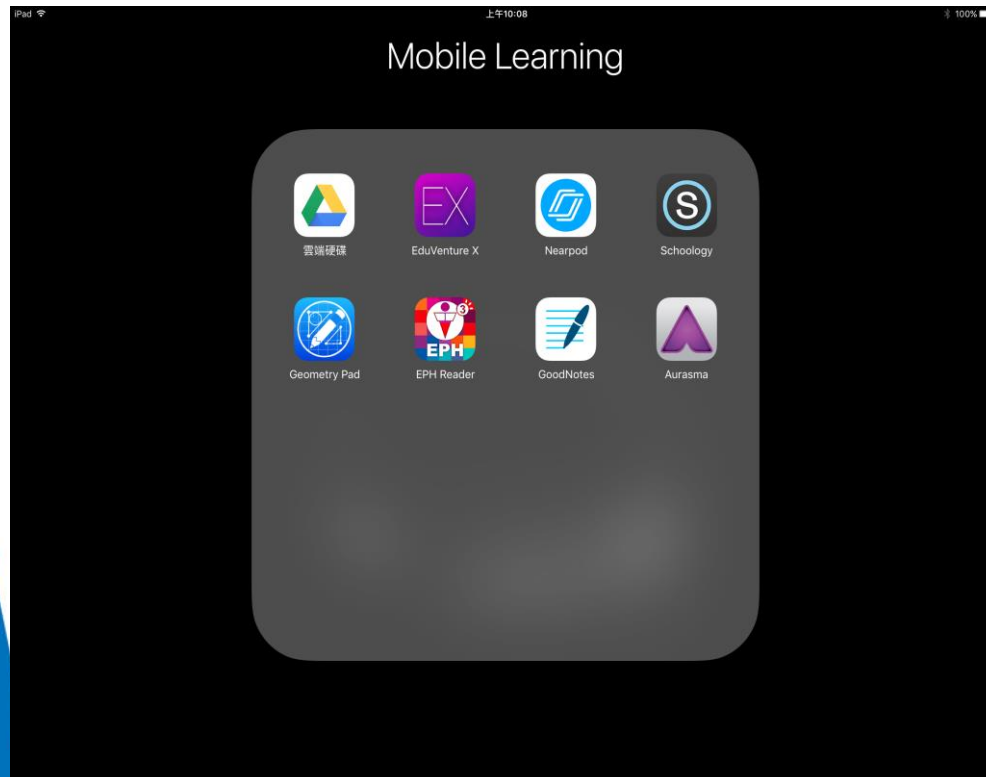
- Schoology
 - Edmodo
 - Moodle...
- (Flipped Learning)

E-Text Book

- CamScanner
 - Book Creator
 - Publishers...
- (Direct Teaching)

On-Line Learning Resources

- Google Apps
 - Office 365
 - HKed City...
- (Self-directed Learning)



Idea Presentation Apps

- Doceri
 - Explain Everything
 - Popplet
- (Flipped Learning)

Subject Content Apps

- GeoGebra
 - Chemist
 - Desmos...
- (Inquiry Based Learning)

AR and VR Teaching

- Google Street View
 - Aursma
 - HTC Vive
- (Inquiry Based Learning)

EDB Centre of Excellence **教育局資訊科技卓越教學中心**



Tsung Tsin College
崇真書院

