

數學網路資源分享

台南市忠孝國中教務主任

輔導員蘇恭弘

國內網站資源

- 題庫類---國立教育資料館「國高中試題」
<http://data.nioerar.edu.tw/mp4.html>
- 專題類---中央研究院「數學傳播」
<http://w3.math.sinica.edu.tw/media/>
- 個人知名網站--昌爸工作坊
<http://www.mathland.idv.tw/>
- 其他---網路已整理資料
<http://www.shute.kh.edu.tw/~t1273/mathweb.htm>

麻省理工學院「開放式課程網頁」 *For Teacher*

<http://www.myoops.org/twocw/mit/index.htm>



The screenshot shows the MIT OpenCourseWare website. At the top, there is a navigation bar with links: | OOPS首頁 | 字 型 | OOPS | OCW 開放式課程計畫 | 開放知識庫 | 招募志工 | 回 應 | 中文討論區. Below this is a banner for MITOPENCOURSEWARE MASSACHUSETTS INSTITUTE OF TECHNOLOGY. The main content area includes a welcome message in Chinese and English, a list of features, and a section about the current number of courses online. There are also links for course lists, FAQ, and contact information.

| OOPS首頁 | 字 型 | OOPS | OCW 開放式課程計畫 | 開放知識庫 | 招募志工 | 回 應 | 中文討論區

MITOPENCOURSEWARE MASSACHUSETTS INSTITUTE OF TECHNOLOGY

歡迎來到麻省理工學院的「開放式課程網頁」。這是一個免費、開放的麻省理工學院教材資源網站。我們邀請您來看看目前已經上線的課程。

歡迎來到麻省理工學院的「開放式課程網頁」 Welcome to MIT's OpenCourseWare:

這是一個免費、開放的教育資源，供給全世界各地的機構、學生和自學者使用。開放式課程系統代表麻省理工學院提升知識和教育水準的願景，並且為二十一世紀的世界服務。這個網站的目的正與麻省理工學院對於追求卓越、創意和領導的價值觀不謀而合。

麻省理工學院的「開放式課程網頁」：

- 是麻省理工學院教材的網路版。
- 不需要任何註冊。
- 並非是給予學位或是證照的網站。
- 並不提供麻省理工學院入學申請。

想知道更多有關資訊，就在 [麻省理工學院「開放式課程網頁」](#)....

目前已經上線九百門課程

麻省理工學院的開放式課程計畫目前上線了九百門課程，已經到達了2007年所有課程上線的目標的一半。這些課程包括了麻省理工學院五個領域的三十三個不同學科的課程。

[查閱所有課程列表](#)

» 課程列表 瀏覽 所有已上線課程	» 關於本計畫 瞭解更多 有關本計畫的 效應和影響... <ul style="list-style-type: none">• 影響• 媒體消息• 緣起	» 說明 回答 你的疑問... <ul style="list-style-type: none">• 常見問題集(FAQ)	» 回應 告訴我們 你的想法... <ul style="list-style-type: none">• 寄信給我們
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詳全文...

麻省理工學院
校長查爾斯·M·
威斯特
(Charles
M. Vest) 的
話



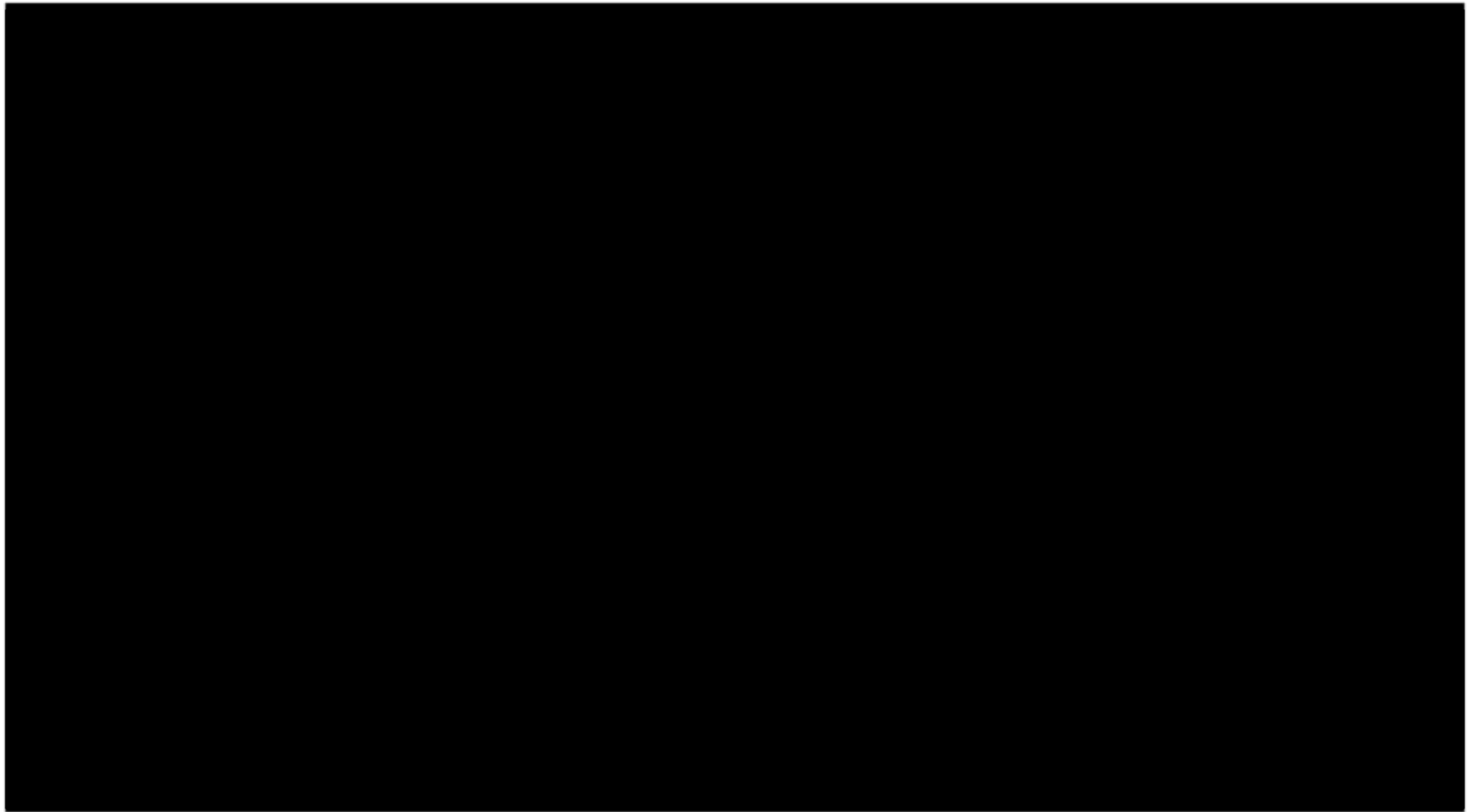
宅神——
朱學恆創辦的

國外網站資源

<http://www.khanacademy.org/>

The screenshot shows the Khan Academy website homepage. At the top, there is a green navigation bar with links for "Login", "Donate", and social media icons for YouTube, Twitter, Facebook, and LinkedIn. The main header features the Khan Academy logo, which includes a stylized tree icon, and the text "KHANACADEMY" with "53,871,155 lessons delivered" below it. A search bar is located on the right side of the header. Below the header, there is a navigation menu with links for "Watch", "Practice", "Coach", "Contribute", and "About". The main content area is divided into several sections. The first section is a large banner with the text "Watch. Practice. Learn almost anything—for free." and a sub-header "Khan Academy on the Gates Notes" above a video player showing a man speaking. Below the banner, there is a section titled "Help us change education" with a paragraph of text and two buttons: "Browse the library" and "Try an exercise". The next section is "Watch a video about the Khan Academy" with a carousel of four video thumbnails: "Sal on the Khan Academy @ TED", "What is the Khan Academy?", "Overview of our exercise software", and "Forbes names you need to know". Below this is a section titled "Browse our library of over 2,100 educational videos..." with a "Jump to playlist:" menu containing "Math", "Science", "Humanities & Other", "Test Prep", and "Talks and Interviews". The final section is "Algebra" with a paragraph of text and a list of topics: "Simple Equations", "Equations 2", "Equations 3", "Algebra: Linear Equations 4", "Level 1 multiplying expressions", "Solving a quadratic by factoring", "i and Imaginary numbers", "Complex Numbers (part 1)", "Conic Identification 3", "Foci of an Ellipse", "Foci of a Hyperbola", and "Proof: Hyperbola Foci".

創辦人的話



畢氏定理的說明

The main mast of a fishing boat is supported by a sturdy rope that extends from the top of the mast to the deck. If the mast is 20 feet tall and the rope attaches to the deck 15 feet away from the base of the mast, how long is the rope?

相似三角形

15 If $\triangle ABC$ and $\triangle XYZ$ are two triangles such that $\frac{AB}{XY} = \frac{BC}{YZ}$, which of the following would be sufficient to prove the triangles are similar?

A $\angle A \cong \angle X$

B $\angle B \cong \angle Y$

C $\angle C \cong \angle Z$

D $\angle X \cong \angle Y$

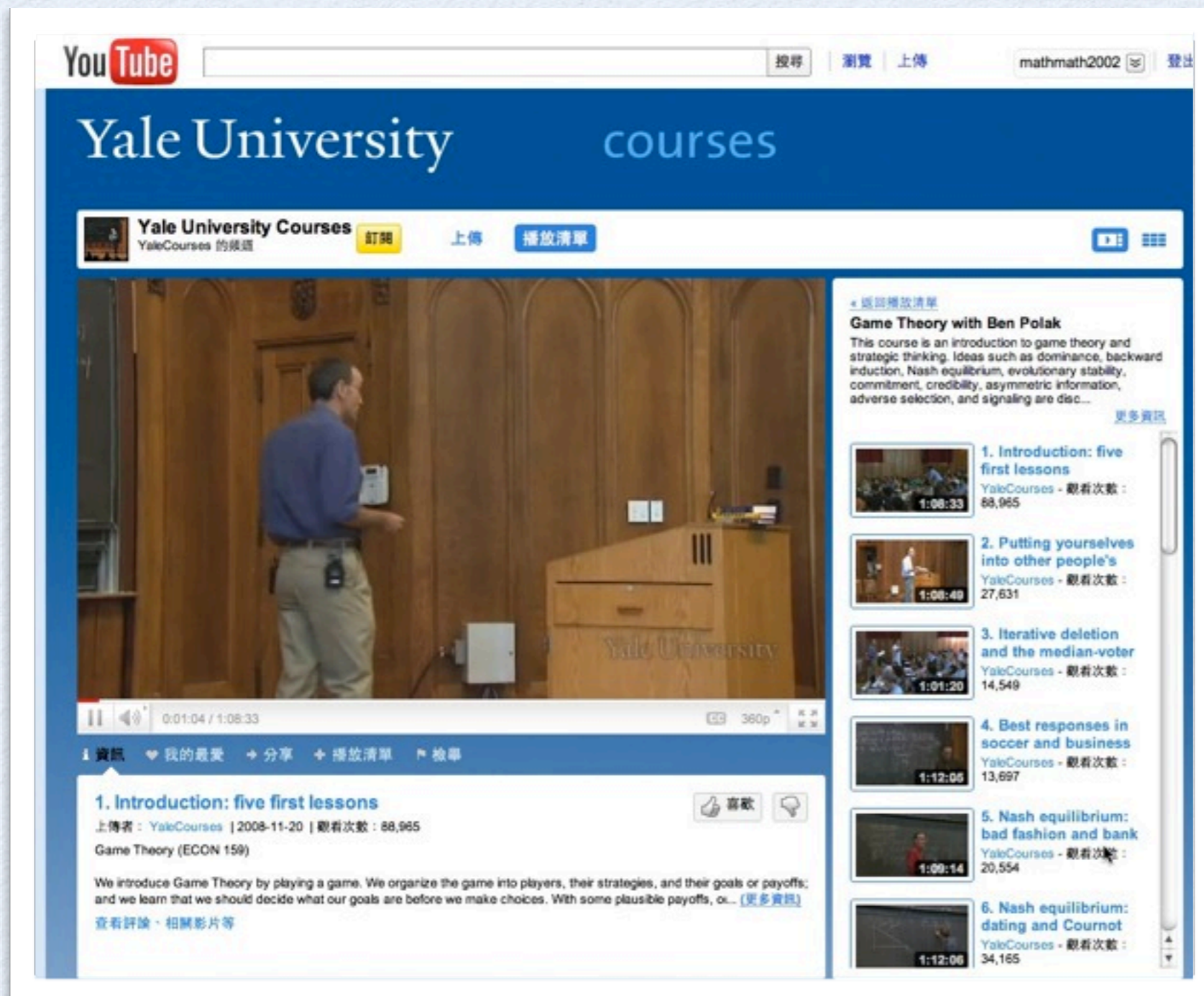
國外網站資源--要錢的，看看就好

<http://www.mathway.com/>

The screenshot displays the Mathway website interface. At the top, there are social media icons and a 'More' button. The main navigation bar includes 'Mathway BETA', 'Profile', 'Problem', 'Graph', 'Worksheet', and 'Glossary'. Below this is a subject navigation bar with 'Basic Math', 'Pre-Algebra', 'Algebra', 'Trigonometry', 'Precalculus', 'Calculus', and 'Statistics'. The main content area features an 'Enter Your Problem' section with a math input field containing the equation $-8+y=8(x^2-1/2)$. A large 'Mathway' logo is overlaid on the page, with the text 'Over 93,352,636 problems solved!' below it. To the right, there is a 'Example Problems' sidebar with a list of topics including Algebra Concepts and Expressions, Points, Lines, and Line Segments, Simplifying Polynomials, Factoring Polynomials, Linear Equations, Absolute Value Expressions and Equations, Radical Expressions and Equations, Rational Expressions and Equations, Systems of Equations, Inequalities, Functions, Complex Numbers and Vector Analysis, Logarithmic Expressions and Equations, Exponential Expressions and Equations, Matrix Operations, Conic Sections, Vectors, and Linear Independence and Combinations. At the bottom of the page, there is a footer with links for 'About Mathway', 'Teachers', 'Mobile', 'Affiliate Program', 'Advertise', 'Tell a Friend', 'Link to Mathway', 'Help', 'Contact Us', and 'Follow us on Twitter'. The footer also includes the text 'Powered by Bagatrix Math Software Technology ©2011 Bagatrix, Inc. All rights reserved. Privacy Policy | Terms of Use'.

國外網站資源--YALE大學

<http://www.youtube.com/yalecourses#p/c/6EF60E1027E1A10B/0/nM3rTU927io>



The screenshot shows the YouTube channel for Yale University Courses. The main video is titled "1. Introduction: five first lessons" and has 88,965 views. The video description reads: "We introduce Game Theory by playing a game. We organize the game into players, their strategies, and their goals or payoffs; and we learn that we should decide what our goals are before we make choices. With some plausible payoffs, or..."

On the right side, there is a list of videos with their titles and view counts:

- 1. Introduction: five first lessons (88,965 views)
- 2. Putting yourselves into other people's (27,631 views)
- 3. Iterative deletion and the median-voter (14,549 views)
- 4. Best responses in soccer and business (13,697 views)
- 5. Nash equilibrium: bad fashion and bank (20,554 views)
- 6. Nash equilibrium: dating and Cournot (34,165 views)

For Teacher

下一個精彩的教學資源
就是您的巧思!



謝謝
聆聽

