

Á| 1 Áö °-Àç³»;ë (1998³â 3;ù 2Àï 08:00- 10:50)

1. $\frac{1}{4} \text{A}^{\circ}$ $\text{f} \frac{1}{4} \text{B}^{\circ}$, í
 - $\angle A' A \hat{=} \angle C D \frac{1}{4} \text{A}^{\circ}$ ü è $80^{\circ} D$ - > $60^{\circ} D$
 $08:00 - 09:10$ ($70^{\circ} D$)
 $10:40 - 10:50$ ($10^{\circ} D$)

2. 60°D

- 1) $\pm^{31} \text{°} \text{A}^{\circ} \text{3}$ (5°D)

2) $\text{C} \text{D} \text{x} \text{y}^1 \text{D}^{\circ} \text{3}$ (30°E , 25°,1 , 13°D)

3) ${}^{\circ}\text{u}, \tilde{n}^{1/3}, \tilde{1}$ (10°D) - > $\frac{1}{\sqrt[3]{\text{C} \text{D} \text{A} \text{C}} \text{ A} \text{B} \text{z} \text{a}^1 \text{P}} {}^{\circ} \text{-} \text{A} \text{P} \text{ } 1 \times \mu \text{z} \text{a}^0 \text{I} \text{z}^{\circ}$

(1) $\pm^3 \text{A}^{\circ}, \tilde{n} \text{C} \text{Y}$

(2) $\pm^3 \text{A}^{\circ} \text{3} \text{z} \text{e}$

(3) $\pm \text{a}^{\circ} \text{e} \text{E} \text{z}^{\circ} \text{u}$

(4) $\text{A} \text{D}^{\circ} \text{z}^1 \text{a}^1 \text{y}$

(5) $\text{z} \text{I} \text{z} \mu^{\circ} \text{e} \text{E}^1$

$\text{z} \text{O}^{1/4}$: Calculus (5/E)
 $\text{A} \text{u} \text{A} \text{U}$: Howard Anton
 $\text{A} \text{a} \text{H} \text{z} \text{c}$: John Wiley & Sons,

Ø ¼ : Calculus (5/E)
ÀúÀÚ: Howard Anton
ÃâÄç»ç: John Wiley & Sons, INC

- ÁÌ·Ð°-ÁÇ
 - º»¹®ºú Ç¹Á|Ç®ÁÌ Áß½É
 - , ®Æ·Æ®`Â °í `ÉÇÑÇÑ ÁÚÁ|Åää·Í ÇÍ°í, °³ÁÌÁÌ Ç® ¼ö ÁÖµµ·Í.
 - , ÅÁÖ 1È, ÄüÁî ¼Ç½Ã (20°ÐÁ¤µµ, 3- 5¹®Á|)
 - ¼Ç¹Àç¹çµ (¹ÚÁ³Áø±³¹/ö)
 - ºç ¼Àçý ¶`Ù ¹®Á|°; ÁÖ`ÄµÝ, ðµÍ Ç®³Á ÁÙ ¼ö`Â ³/º°í,
 - ÇÐ»ý¹®Á|Ç®ÁÌ ¹× ¼³, í (40°Ð)
 - ±³¹/ö¹®Á|Ç®ÁÌ ¹× ¼³, í (40°Ð)
 - ÁúÁÇ½Ã°£ (20°Ð)

4) Åømm (27°D)

- *çøÄç*
 - (1) worming up $\frac{1}{4}\text{A}^{\circ}$ $\text{f} \ddot{\text{A}} \text{l} \dot{\text{I}}$ $\text{ç} \ddot{\text{E}} \text{ç} \ddot{\text{a}}$
 - (2) $\text{Á} \text{ú}^1 \text{R} \ddot{\text{A}} \text{»} ,^1 \ddot{\text{A}} \text{l} \dot{\text{I}}$ $\text{ç} \ddot{\text{o}} \text{ } \text{°} \text{Í} \ddot{\text{A}} \text{o} \text{.}$
 - (3) $\frac{1}{4}\text{A}^{\circ}$ $\text{f}^3 \ddot{\text{E}}^1 \text{è} \text{ } \text{`} \text{A}^{\text{3}} \text{»} \text{°} \text{ i} \text{ } ^3 \ddot{\text{E}}^3 / \text{E}^4$ $\text{ç} \ddot{\text{o}} \text{ } \text{°} \text{Í} \ddot{\text{A}} \text{o} \text{.}$
 - $\text{`} \ddot{\text{U}} \text{A}^1 \text{A} \ddot{\text{O}} \text{o} \text{ } \text{Í} \ddot{\text{A}} \text{Í} \text{ } 2 \ddot{\text{A}} \ddot{\text{O}} \text{A} \ddot{\text{x}} \mu \mu \text{ } \text{`} \text{A}^{\text{50}} \text{D} \text{ } \frac{1}{4} \ddot{\text{O}}^3 \frac{3}{4}, \text{ } 10^{\circ} \text{D} \text{ } \text{E} \ddot{\text{P}}^1 \text{A}^{\text{50}}$
08:00- 08:50, 09:00- 09:50, 10:00- 10:50
 - $\ddot{\text{A}} \ddot{\text{O}} \text{A}^3 \text{A} \ddot{\text{u}} \text{A}^{\text{50}}, \text{ } \text{`} \text{A}^{\text{70}} \text{D}, \text{ } \text{80}^{\circ} \text{D}$
08:00- 09:10, 09:20- 10:40

5) Á_ꝝ ® (5ºD)

„ñÇ¥: ¼öÀÇ Æ¼°è¿Í Àý'ëÄ¡, ÁÄÇ¥¿Í ±×· ¡ÇÁ, Á÷¼±°ú °Å®,
¿ø ¹× ÀÌÁ÷¹æÁ¤¹/₂ÄÀÇ ÀÌÇØ

ÁÀÇ, | Á| 'ë. Í ³ÆÀÚ.

1. $\frac{1}{4}$ ÀÇ Ä $\frac{1}{4}$ è

$$\begin{aligned}
 < \frac{3}{4} \ddot{\text{A}} \pm \text{a} \gg \text{c} \text{C} \times > \\
 \sqrt{2} &= 1.414213\ldots \\
 \sqrt{3} &= 1.732050\ldots \\
 \varrho &= 3.141592\ldots \\
 \sin 10^\circ &= 0.1736\ldots
 \end{aligned}$$

ÀÚ; $\neg 1/\ddot{o}$, Á $\bowtie 1/\ddot{o}$, À $\dashv \circledR 1/\ddot{o}$, ${}^1\ll \circledR 1/\ddot{o}$, ${}^1/\mathbb{C} 1/\ddot{o}$, o ${}^{11}\not A 1/\ddot{o}$

ÀÚ; -^{1/4}Ö = ^{3/4}ÀÇ Á¤^{1/4}Ö: 1,2,3,4,5,.....

$\text{A} \otimes \frac{1}{4}\ddot{\text{o}}$: $\frac{3}{4}\text{c}\ddot{\text{A}}\text{C}$ $\text{A} \otimes \frac{1}{4}\ddot{\text{o}}$ + 0 + $\ddot{\text{A}}\frac{1}{4}\ddot{\text{A}}\text{C}$ $\text{A} \otimes \frac{1}{4}\ddot{\text{o}}$

À-^{®1/4} ö: Á¤^{1/4} ö a,b (b, ÁO) | ½^{1/4} a/bÀC z Ä· Í ³aÁ^{3/4} Áø ¼ ö

- $\bar{A}^{-}C\tilde{N}^{1/4}\tilde{O}^{1/4}\ddot{o}$: 1/2, 0.75,

- $\frac{1}{4}\partial E^{-\frac{1}{2}}\partial^{\frac{1}{2}}\partial$ ($\frac{1}{4}\partial E^{-C\tilde{I}^{-1}\tilde{A}^{-1}}\ll C\tilde{N}^{\frac{1}{2}}\partial^{\frac{1}{2}}\partial$): $1/3, 2/3, \dots$

$\text{^1} \ll \text{^{\circ}R} \text{^1/} \ddot{\text{O}} : \text{^0} \tilde{\text{N}} \text{^1/} \ddot{\text{O}} \text{E}^- \text{^1} \ll \text{C} \tilde{\text{N}} \text{^1/} \ddot{\text{O}} \text{^1/} \ddot{\text{O}}$

$$= -\sqrt{2} + \sqrt{3}$$

- $\text{O} \tilde{\text{n}}^{1/2} \text{E}^{-1} \ll \text{C} \tilde{\text{n}}^{1/2} \tilde{\text{o}}$ 1 4142135

- $j\theta \hat{A}^2$, $\Rightarrow i^\circ c C \hat{O}^{1/4} \theta^\circ a$

$$\frac{1}{4}\mathbb{C}^1\ddot{\mathbf{0}} = \mathbb{A}^{-\frac{1}{4}}\ddot{\mathbf{0}} + \frac{1}{4}\mathbb{C}^1\ddot{\mathbf{0}}$$

¾C ¹/öÀC Á|º öÀo ¾C ¹/ö. À¹/öÀC Á|º öÀo ¾C ¹/ö. ÀÀC Á|º öÀo oÀí 'ù.

- > $\frac{3}{4} \text{P}^\circ \text{C} \tilde{\text{N}} \text{ } \frac{1}{4} \text{C}^1 \text{Ö} \text{U} \text{U} \pm \times \text{ Á} \text{I}^\circ \text{Ö} \text{A}^0 \text{ Á}^{1/4} \text{Ö}^\circ \text{ i } \text{u} \text{C} \text{Á} \text{ö} \text{ } \frac{3}{4} \text{E}^\circ \text{ Á}^\circ \text{ U}$.

$\text{a}^2 - x^2 = -1$ $\text{a} \in \mathbb{C}$ $x \in \mathbb{R}$

ÀÌ· - CÑ¹ aÁ® ¼ Ä» C®. Á é ½ öAC ¹ üÄS | È® Äà CØ³ß CÑ'Ù.

$\tilde{A}^{\circ} \circ \tilde{C}^{\circ} = -1$ $\tilde{A}^{\circ} \tilde{C}^{\circ} = \frac{1}{2}$ $\tilde{C}^{\circ} \tilde{C}^{\circ} = 0$ ($i^2 = -1$) $\tilde{A}^{\circ} \tilde{A}^{\circ} = 0$ $\tilde{C}^{\circ} \tilde{A}^{\circ} = 0$

½Ç½Ö Í Çä½ö, | ÇÖÄÄ ० १ १ Ð ५ ¶ ० १ ÇÑ'Ù.

< ० १ १/४ Ø १/५ ö Á Ç Á ø , ® >

$a, b \in \mathbb{C}$ ፩ $a + bi \in \mathbb{A}_\mathbb{C}$ ፩ $(a, b) \in \mathbb{A}_\mathbb{C}^2$

$$2. \frac{0}{0}, \frac{p}{0} \text{ ÁÇ } \approx \tilde{\text{A}}: \text{ ÁÇ ÇÖ } \frac{1}{4} \text{ } \frac{3}{4} \text{ } \tilde{\text{U}} = i^{\circ} \tilde{\text{I}} \tilde{\text{A}} \text{ } i^{\pm}$$

3. 2 Á ÷ 1 a Á ÷ 1 Á Á Ç Ç Ö Y (± U Á Ç ° 1 Á / A Ç ° ° 1 Á)

$$x^2 + 3x - 2 = 0$$

$$4x^2 + 4x + 1 = 0$$

$$x^2 - x + 3 = 0$$

($\frac{1}{4} \cdot \tilde{\text{I}} \cdot \tilde{\text{U}}, \frac{1}{4} \cdot \tilde{\text{I}} \cdot \tilde{\text{U}}$, $\frac{1}{4} \cdot \tilde{\text{I}} \cdot \tilde{\text{U}}$,
 $\frac{1}{4} \cdot \tilde{\text{I}} \cdot \tilde{\text{U}}, \frac{1}{4} \cdot \tilde{\text{I}} \cdot \tilde{\text{U}}$)

$$ax^2 + bx + c = 0 (a \neq 0) \text{ ÁÇ ÇÖ, } \pm, \text{ ÇÖP, ÁU.}$$

1) 3 ÇÖ - Á» a · \tilde{\text{I}} ^ 3 a ^ \circ, é

$$x^2 + \frac{b}{a}x + \frac{c}{a} = 0$$

2) U Á Ç Á Á U Á » °, é,

$$x^2 + \frac{b}{a}x + \left(\frac{b}{2a}\right)^2 - \left(\frac{b}{2a}\right)^2 + \frac{c}{a} = 0$$

$$(x + \frac{b}{2a})^2 = \frac{b^2 - 4ac}{4a^2}$$

$$\therefore x + \frac{b}{2a} = \pm \frac{\sqrt{b^2 - 4ac}}{2a}$$

$$\begin{aligned} \therefore x &= \frac{b}{2a} \pm \frac{\sqrt{b^2 - 4ac}}{2a} \\ &= \frac{b}{2a} \pm \frac{\sqrt{b^2 - 4ac}}{2a} \end{aligned}$$

4. **$\text{I}^{\text{m}} \text{u}^1 / \ddot{\text{A}} \text{A} \gg \text{C}^{\text{R}} \text{o} \text{i} \pm \times, \text{R} + \text{a}$**

$$3x - 2 < 8$$

5. **$\text{e}^1 / \text{D}^{\text{o}} \text{n}^{\pm 3} \rightarrow \text{A} \text{o}, \text{R} \text{ } 1.1.1$**

6. **Ayçő**

- $\text{O}^1 \text{C}^{\text{N}} \text{U}$, $\text{O}^1 \text{C}^{\text{I}} \text{A}^{\text{o}}$ $\text{E}^3 \text{A}^1 \text{U}$
- $\text{o} \text{A} \text{y} \text{c} \text{o}$
- $\text{I}^{\text{o}} \text{D}^{\text{A} \text{y} \text{c} \text{o}}$
- $\text{c} \text{o} \text{A} \text{y} \text{c} \text{o}$
- $\pm^3 \text{A} \text{y} \text{c} \text{o}$
- $\text{e}^1 \text{D}^{\text{3a}} \text{e}^{-1} \text{y} \& \text{ A}^{\text{I}} \text{o} \text{C}^{\text{A}} \text{I}^1 \text{A}^1 \text{y}$

7. **$\text{I}^{\text{m}} \text{u}^1 / \ddot{\text{A}} \text{A} \text{c} \text{ C} \text{o}$**

- $\text{A} \text{o} \pm, \text{o} \text{f}, \text{o}^3 \pm, \text{o} \text{f}, \text{Y}^1 \text{o}^3 \pm, \text{o} \text{f}$
- $\text{e}^1 \text{A}^1$

CĐ 1.1 p.3

Mathematica

1. Mathematica¶ó?

ÄÄÇ»ÄÍ·Î ¼ÖÇÐÀ» Çİ±â ÀŞÇÑ Ä¼°è, ¶Ç`Â
 ¼ÖÇÐ°ú ±× ÀÀ;ëÀ» ÀŞÇÑ `Ù, ñÀû ¼ÒÇÁÆ®;þ³â

½ ö Ç Ð Ä Ì À û ï ë µ Ç ` Ä , ð µ Ç ° Ð ³ / ß ï ¼ À Ç ° è » ê ± â ï a Ç ò , ± â È f Ä ³ , ® ,
3 Ä ÷ ï ø ± x · i Ç È Ä ³ , ® , ½ Ä ¹ Ä · ¹ Ä Ì ¼ Ç , , ð µ .. µ µ î ï i Ä Ì ï e Ç ò ½ ö
À Ö ` Ä ° í ± P Ç Á · Í ± x · i ¹ Ö ¾ ð ³ / Ä

2. Mathematica® i Çİ 'Â ÀÏÀ°?

- 1) $\frac{1}{4} \ddot{\text{O}} \ddot{\text{A}}$; $\circ \ddot{\text{e}} \gg \ddot{\text{e}}$ (numerical computation)
 - 2) $\pm \ddot{\text{a}} \ddot{\text{E}} \ddot{\text{f}}$; $\circ \ddot{\text{e}} \gg \ddot{\text{e}}$ (symbolic calculation)
 - 3) $\pm \times$; $\ddot{\text{j}} \ddot{\text{C}} \ddot{\text{E}} \ddot{\text{A}}^3$; $\circ \ddot{\text{e}} \gg \ddot{\text{e}}$ (graphical operation)

3. Mathematica Çözümleri

- 1988 à 6 ème version 1 ¼°
 - 1991 à 1 ème version 2 ¼°

4. Mathematica® i ÅÖ'Â °÷Å°?

simtnt_w01\ Mathematica\ Cdsetup.exe

5. Äüºí¹®Çà

, Å½º, ÅŒ/Å«, ÅŒ¹®, å¹¼, È°, å±, Åœ
¼º³È`ç
º-»Ó±Ø, ³²±â, ø, Åü±ÔÃ¢ °øÅú