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Thời gian làm bài: 90 phút;
 (50 câu trắc nghiệm)

0 m ý Ä WKL

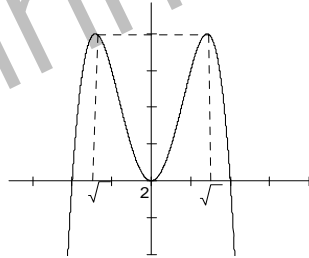
(H ử sinh không ý ãđksud mg tài li 0)

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&kX 6Ö QJKLEP FëD SKmkQOjWUuQK
 \$ %9{ VÖ QJKLEP

&kX .ÄW OX± QjQjRÄV WXQK ykQ yL E X FëDjP VÖ
 \$ +jP VÖ OX{Q yx QJ ELÄQ WURQ
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&kX máQJ FRQJ WURQJ KuQK YÁ ErQ OjQy K j W K I Ö F P m c F Y O L E
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&kX *ÑLN Oj JLDR yLÇP FëD y má QJ ynká Qj FRQJ .KL yy
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&kX +jP y Ö x 3 Fy EDR QKLrX yLÇP FöF WUİ "
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&kX &KR KuQK FKyS 6\$%&' Fy ÿi\ \$%&' OQK WQK YK{QY}
WUzQ QJR≠L WBLÅS VjDRuDLKFFKLÄXOYX(OQABCS) F FëD J ÿiQK Qj
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\$ H Oj WkP ÿmáQJ WUzQ%ABCYL WLÅS WDP JLiF

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&kX &KR KuQK FKyS 6\$%&' Fy ÿi\ \$%&' OQK WQK YK{QY}
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\$ D % D & D ' $\frac{D}{\sqrt{\sqrt{D}}}$

&kX 7URQJ FiF KjP VÕ VDX KjP VÕ QjR ÿxQJ ELÄQ"

\$ y x %y x & y S^x ' y $\sqrt{\sqrt{\frac{S^x}{y}}}$ ©

&kX 7URQJ FiF KjP VÕ VDX KjP VÕ QjR" QJKİFK ELÄQ WURC

\$ y x⁴ 3x² 2x 1 %y x³ x² 2x 1

& y $\frac{x 1}{2x 2}$ ' y x³ 3

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\$ $\log_a \frac{x}{y}$ $\log_a x$ y % $\log_a \frac{x}{y}$ $\frac{\log_a x}{\log_a y}$

& $\log_a \frac{x}{y}$ $\log_a x$ $\log_a y$ ' $\log_a \frac{x}{y}$ $\log_a x$ $\log_a y$

&kX &KR KjP VÕ x Fy ÿxCWKİEQK ÿÅ QjRy GmBL ÿk\

\$ C F³W WUéF KRjQK W≠L%ED FLEV PWUéF KRjQK W≠L KDL ÿ

& C F³W WUéF KRjQK W≠L PCY WNK LCP F³W WUéF KRjQK

&kX .KRŞQJ ÿxQJ ELÄQ $\log_a \frac{3^{x^3} 3^{x^2}}{2}$ KjP VÕ

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& 0;2 , d;2 Yǒ; d

&kX 7uP W±SSQFjKDL ÈPK mkQR JW[UuQRJ

\$ 6 ^ ` % 6 ^ ` & 6 ^ ` ' 6 ^ `

&kX &KR KuQKS.ABCFSA,SB,SC ÿ { L P Ý W Y X { Q

SA 2√3,SB 2,SC 3 7tQK WKÇ WSAFKNKÖL FKyS

\$ V 12√3 %V 4√3. &V 2√3 ' V 6√3

&kX *L§L E©W SKmQqQ3k WUuQk V1DX

\$ 1 x $\frac{5}{3}$ % 1 x 3 & $\frac{5}{3}$ x 3 ' x 3

&kX %D P»W TXD F•QJ PÝW ýIQK FëD PÝW Q u Q K O K Ý S W F K ó

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\$ FP % FP & FP ' FP

&kX ¥R KjP FëDy KßP QjÖ

\$ y' 3^x %y' 3^x.ln3 &y' x.3^{x-1} ' y' $\frac{3^x}{\ln 3}$

&kX 7uP W©W F§ FiF JLi WÜÇ VSKöFk Qã DWUQFQRVÖLËP WKöF

\$ mt %mz & m! ' m!

&kX +jP x³Ö 5x² 3x 1 ÿ¥W FöF WUİ NKL

\$ $\frac{10}{3}$ % $\frac{1}{3}$ & $\frac{10}{3}$ ' $\frac{1}{3}$

&kX &KR\Oj KDL VÖ WKöFÖGKIDJVOj WKöF W•\ ê sQJ" WKÍF

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&kX .KL TXD\ PÝW WDP JLiF YX{QJ NÇ F§XFQJ ýLYÇPXWQRQJ

WK•QJ FKÍD PÝW F¥QK JyF YX{QJ WD ýmçF

\$.KÖL QyQ %.KÖL WUé &+uQK QyQ ' +uQK WUé

&kX ¥R KjP FëDyKPRVÖ Oj

\$ y $\frac{\quad}{x}$ % y $\frac{\quad}{x}$ & $\frac{OQ}{Q}$ ' y $\frac{\quad}{x}$ O Q

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\$ x WKİ KjP VÖ Fy WkËP F±Q WkQJKjPjVÖ Fy WkËP F±Q QJ

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&kX &KR NKÖL \$%KysSA \$%& WDP\$%&YX{QJ%W\$%L D \$&√ D

7tQK WKÇ WtF\$%KÖL WkQJKjPjVÖ

\$ $\frac{\sqrt{D}}{\quad}$ % $\frac{\sqrt{D}}{\quad}$ & $\frac{\sqrt{D}}{\quad}$ ' $\frac{\sqrt{D}}{\quad}$

&kX 5~W JÑQ PLÇ XxWkIF WKX ýmçF

\$ m — % m — & m , m —
&kX *ÑĤR O«Q OmçW Oj ŷÝ GjL ŷmáQJ VLQK u QKĤW éFD7R Yj
WtFK [XQS FĀDQK WUé 7 Oj

\$ S_{xq} SRI % S_{xq} SRh & S_{xq} SRI ' S_{xq} SR h

&kX 6Ō QJKLĚP QĤKQŌŌWŌSDm²kQJ WUuQK
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&kX %j ; JñL WULĚX YjR QJkQ KJQJ WKĤRPWQmKíFñQn
U~W OmL UD WKu WLĀQ OmL ŷmçFLWŌŌWjR PŌŌ QēD NuŌM
; WKX ŷmçF OmL OSj EDŌŌKLVXŌW NK{QJ WKD\ ŷŪL "
\$ WULĚX%ŷxQWULĚX ŷ&QJ WULĚX ŷxQJ WULĚX ŷxQJ

&kX 7tQK ŷmáQJ NtQK LPĀ»SVKŌŌK QŌPS ISKŌŌQJ Fy F≠QK EμQ

\$ 6a % $\frac{3a}{2}$ & a√3 ' 3a

&kX 1JKLĚP FēD SKŌŌKQJ WUjQK
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&kX &KR KuQK QyQ Fy EaŌ NtjQYŷGjL ŷmáQJ VLĚŌ WtFK [X
TXDSQKFēD KuQK QyQ ŷm FKR Oj

\$ S_{xq} 12πa % S_{xq} 4√3πa & S_{xq} √39πa ' S_{xq} 8√3πa

&kX &KxR a√³a YβL0 a v1 7tQK JLi WUİFēDg_a ELÇX WKÍF

\$ P 0 %P $\frac{2}{3}$ & P 1 ' P $\frac{5}{3}$

&kX %LÇX√aWkíF! YLĀW GmβL GYŌJ VŌŌPĚVKŌD Wù Oj

\$ a ⁻ %a ⁻ & a ⁻ ~ ' a ⁻

&kX 7URQJ FiF PĚQK ŷÅ ŷmçX' 6ŌĚŌKF ŷjĀŌŌK RKR»F FiF P»W Fē
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\$ OβQ KkQ K4R»F EμQJ % OβQ 4KkQ
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+Â7

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