

6 â *, È2 'è& -2 7 2
75là1* 7+37 Ü, &"1

Ä 7+, 7+ð 7+37 48 Ô & *, \$
0Đ1 72 È1 ± /ª1 ± /Đ3

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

0 m ý Ä WKL

(Thí sinh không ý thức sử dụng tài li 0)

+ Ñ WrQ WKt VLQK 6 %'

&kX &KR KuQK O\$%&S(K)m+QJ FIF F¥QK\$Đ (NKLQJy
\$ D % √ & √ ' √

&kX 3KmkQJ FIF QKFRV[Fy QJKLEP Oj
\$ NS S N S S N S ' NS
% &

&kX 7i FIF FKó VÕ Fy WKÇ O±S ÿmçF EDR QKLrX VÕ Wõ QKLr
QKDX VDR FKR Fy ÿ~QJ FKó VÕ FK¹Q Yj FKó VÕ O¿"
\$ % &

&kX ;ÄS QJ~X QKLrQ QJmáL ÿjQ {QJ KDJjQJmáLÿjQ FIEj JmÄP[ÄV
KjQJ QJDQJ ;iF VXCW VDR FKR ÿiDÇp QJ×L JLóD KDL QJmáL ÿjQ
\$ - - & - ' -
% &

&kX &KR KuQK FKys 6 \$%&' Fy ÿil \$%Đ6Qj FIF QK YX{QJ Fy FQKBL
*yF JLóD ÿmáQJ WK·QJ 6' Yj P»W SK·QJ \$%&' EµQJ
\$ R % R & R DFUVLQ

&kX &KR FIF KjP VÕ VDXy x [II y x [III 7URQJ FIF KjP
ÿm FKR KjP NK{QJ Fy FõF WUİ Oj
\$ &Kİİ % &Kİİ & &Kİ ' I Yİj

&kX 0ÝW F{QJ W\ PXÕQ OjP PÝW ÿmáQJ ÕÇÁ GÄQ ÇÁXV Wİi PÝW W
KzQ ÿSR +zQ ÿSR FIFK Eá ELÇQ NKR*ÑL& &Y QjQJL ÇPF WUİLQ EÁÁ EV
FIFK Wİ \$ ÿÄQ & Oj NP 1JmáL W Q \$&QY ÇFOY ŞQÇ QPÝW Qİ WKUİR' ÿ
\$' % Ç VÕ WLÄQ FKL SKt WK©S QKÇW Wjİ F{QÄQV\ SK EID RV IQK NIKF
FKL SKt ÿÇ KRjQ WKjQK PÛL NP ÿmáQJ YjÖQm BW LQ Ç EÁ Qj WUİLİE
\$ NP % NP & NP ' NP

&kX 7uP P ÿÇ & & 9m L P l P
\$ P % P & P ' P

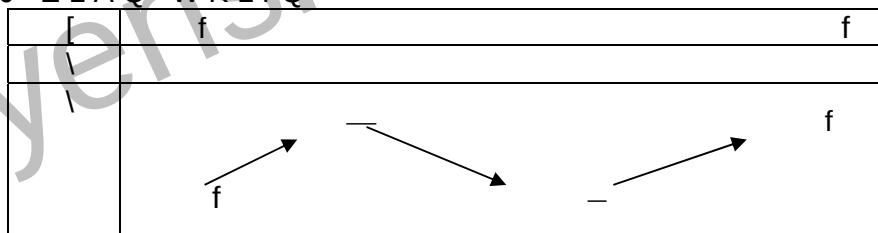
&kX 7i FIF FKó VÕ Fy WKÇ O±S ÿmçF EDR QKLrX VÕ Wõ QKLrQ
\$ % & ' &

&kX 3KmkQJ VUQK FIF QJKLEPSWEİQJ NKRŞQJ
\$ S % S & S ' S

&kX +jP YÕx x x Fy ÿLÇP FõF WUİx WjFµQJ
\$ % & ' &

&kX &KR KjP axÕ bx cx d Fy ÿ× WKİ QKm KuQK ErQ 9ÈQK ÿÇ QjR

\$ a b c d ! % a b c d !
 & a b c d ! ' a b c d
 &kX &iF NKRSQJ ÿ×QJ ELÃQ FëD QjP VÕ
 \$ Yj % f Yj f
 & f Yj , Yj f
 &kX 0ÝW KÑF VLQK NKSR ViW yõ-ELÃQ WkLrQKfëD QjP VÕ
 , 7±S [iF DİQK
 ,, 6õ ELÃQyWkLxQ y æ
 OLyP f yOLP f
 xof xof
 ,, %SQJ ELÃQ WkLrQ



,9 9±\ KjP VÕ ÿ×QJ ELÃQ WUrQJKİFK ELÃQ WUrQ NKRSQJ
 /áL JLSVWUeQnBF QjR"
 \$ %mBF ,9 %%mBF , & %mBF , ' %mBF ,,,
 &kX ¥R KjP FëDyKjP^xvõ^x WxL EµQJ
 \$ - % - & - ' -
 &kX &KR FKX\ÇQ ŷÝQJ WK·QJ [iF ŷİQK EãW SWfKQJ W WUrQFJLk\
 WtQK EµQJ P 9±Q WÕF FwD FKX\ÇQ ŷÝQJ W¥L
 \$ P V % P V & P V ' P V
 &kX .KÕL FKYS 6\$ YX{QJ JyF YBL \$%& ŷi\ \$B&YD% WDB JLiF
 %& Dj WKÇ WtFKaNK.ÖR\$QyAİjKOWİ6%& EµQJ
 \$ √ % D & — ' D
 &kX &KR NKÕL FKYS 6 \$%&'DFyWwCwQtF\$EµQJWDP JLiF ŷÅX F¥
 Oj KuQK EuQK KjQK .KR&QEmQİFK JLóD 6\$ Yj

$\$ \sqrt{D}$ $\% \sqrt{D}$ $\& \sqrt{D}$ $\cdot \sqrt{D}$
 &kX .K·QJ ÿİQK QjRÿ VQX ÿk\ Oj
 \$ +jP VÕ\ WQJİFK ELÃQ WUrQ NKRSQJ
 % +jP VÕ\ VÿxIQJQE LÃQ WUSQ NKRSQJ
 & +jP VÕ\ FQJİFK ELÃQ WUrQ NKRSQJ
 ' +jP VÕ\ FÿxQJVE LÃQ WUSQ NKRSQJ

&kX +jP y $\frac{mx}{x \cdot m}$ ÿxQJ ELÃQ WUfQ NKRSQJ
 \$ m %m! & m \cdot ? > @m t

&kX &KR NKDL WULÇQ QKİ WKİFELÃZWURQ Qfè Q Oj VÕ QJX\ rQ
 &q &q &q &q +Ë VÕ FèDQ

\$ % & ' @
 &kX *Li WUİ OßQ QK©W Yj JLiYWUİxQKó WUKrQWÿRQK QjDnVõW Oj
 \$ % & ' @
 &kX +jP VÕ QjR VDX ÿk\ Fÿ ÿx WKİ QKm KuQK YÁ

$\$ y \frac{x}{x}$ $\% y \frac{x}{x}$ $\& y \frac{x}{x}$ $\cdot y \frac{x}{x}$

&kX *Li WUİ FõF ÿ¥L\FèD KjP [VÕj [

&kX &KR KjP VÕ x & 3KmkQJ WUÿQKÈ WİÃ\$yWQKQ QjK©W
 \$ \ [%y & y x ' y x

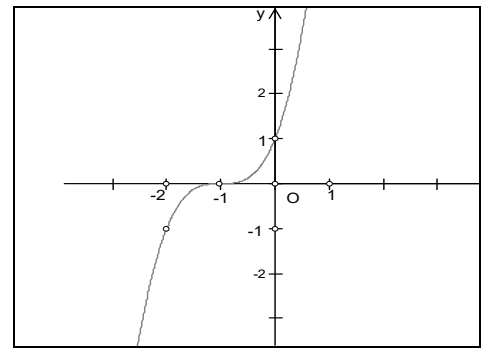
&kX 7©W Fß FiF JLi WUİ FèD Vm ÿÇ YK mQJL ÈPU QK
 \$ md d %m! & m! ' m

&kX 9ßL JLi WUİ QjR FèD PmWKumKjPxVõ ÿ¥W FõF ÿ¥L W¥L
 \$ m %m & m ' m

&kX .KÕL ÿD GLÈQ QjR GmßL ÿk\ FÿWF{QJ WßFDJÿQ È QVWQFWtÿK
 FKLÅX FDR

\$.KÕL FKYS % .KÕL O QJ WèKÕL O±S SK'm.KÕL KÝS FKó QK±W
 &kX *Li WUİLPèDQ EµQJ

\$ % & f ' f
 &kX +uQK YÁ VDX Oj ÿx WKİ FèD KjP VÕ QjR"



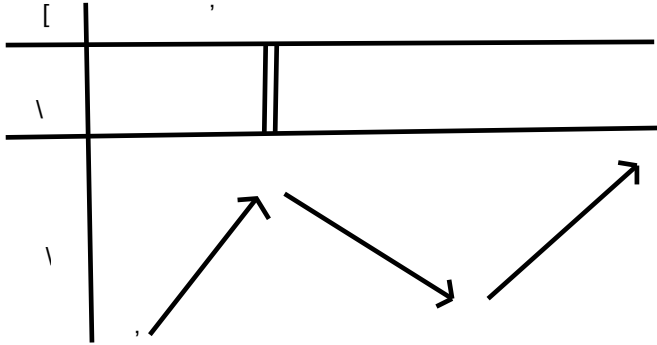
$\$ y \quad x \quad x \quad x$ $\% y \quad x \quad x \quad x$
 $\& y \quad x \quad x \quad x$ $\cdot y \quad x \quad x \quad x$
 &kX &KQ` GmX Oj PÝW F©S VÖX FÝjQF{ Q B V DLKL ýX E μ Q J
 $\$$ $\%$ $\&$ $'$
 &kX 6Ö ýmáQJ WLËP F±QyFëD $\frac{x}{x}$ WÖj KjP VÖ
 $\$$ $\%$ $\&$ $'$
 &kX × WKİ KjP $\frac{[VÖ Fy WLËP F±Q ýíQJ Yj WLËP F±Q QJDQJ O«Q}{[}$
 $\$$ $[$ $\backslash$ $\%$ $[$ $\backslash$ $\&$ $[$ $'$ $\backslash$ $[$ $\backslash$
 &kX &KR KjP VÖ NK·QJ ýİQK QjP VDX ýk\ $\frac{[}{[}$
 $\$$ 1JKİFK ELÃQ? WURQ $\%$ ×QJ ELÃQf WURQ f
 &1JKİFK WURQYj f $'$ ×QJ ELÃQ ^WURQ
 &kX %LÃW ý× WKX KjP VÖKÍ Fy PÝW ýLÇP FõF WUİ OjP VÇP Fy V
 WKÓD PmQ ýLÃX NLËQ QjR"
 $\$$ bt Yç $\%b$ Yç $\&bt$ Yç! $\cdot b!$ Yç W·\ ê
 &kX 3KmkQJ WUuQK WLÃS WX\ÃQ $\frac{x}{x}$ YβLV RYQJ WKİQ KjP βLÖ ýmáQ
 $x \ y$ Oj
 $\$ x \ y$ $\% x \ y$ $\& x \ y$ $\cdot x \ y$
 &kX 7±S [iF ýİQK FëD $\frac{F}{VLQ[}$ R V [$\frac{F}{VLQ[}$
 $\$ \backslash$ $\frac{S}{-}$? ® S N \ $\frac{1}{34}$? ® S $\frac{1}{34}$ ^ S $\cdot$ $\backslash$? ^SN $\cdot$
 $\%$ $\dot{}$ $\&$ $\dot{}$
 &kX &KR KuQK FKyS Wí JLiF 6 \$%&' Fy WKQ VtFKQK μQ\$ VDR©
 6\$ – 6\$0ÝW P»W SK·QJ TXD \$¶ Yj VRQJ VRQJ F¥QK 9% FõD KuQK«
 W¥L %¶ &¶ '¶ .KKÖly FKK\$ WSPK% D E¶ QWtQK WKHR
 $\frac{9}{}$ $\frac{9}{}$ $\frac{9}{}$ $\frac{9}{}$
 $\$$ $\%$ $\&$ $'$
 &kX &KR NKÖL FKyS + DFyİW QÇ KtQK VX{QD F¥QK jEμQJ LÃX FDR
 NKÖL FKyS + EμQJ
 $\$ D$ $\% D$ $\& D$ $' D$

&kX 1JmáL WD JÑW PÝW NKÖL O±S SKmkQX EýQJWJLÛ SýQyO©WNIK
 FiF ýíQK Oj FiF WkP FëD FiF P»W NKNÖLÖD±S±SKSKKQKQJ %EµQW Ð¥
 WiP P»W ýÅX ýy EµQJ

$$\begin{array}{ccccccc} \$ & \frac{D}{\sqrt{}} & \% & \frac{D}{\sqrt{}} & \& \frac{D}{\sqrt{}} & ' & \frac{D}{\sqrt{}} \end{array}$$

&kX 0ÛL ýíQK FëD EiW GLëQ ýÅX Oj ýíQK FKXQJ FëD EDR QKLrX
 \$ % & '

&kX &KR Kjp VÖ [iF ýíQK OLrQYWEF WSQQ ELÃQ WKLrQ



.K·QJ ýíQK QjRÿV-QX ýkl Oj
 \$ +jP VÖ Fy JLi WUİ FöF WLÇX EµQJ
 % +jP VÖ ý¥W FöF ý¥LýWIFöF WLÇX W¥L
 & +jP VÖ Fy ý~QJ PÝW FöF WUİ
 ' +jP VÖ Fy JLi WUİ OßQ QK©W EµQJ Yj JLi WUİ QKÓ QK©W E

&kX &KR KuQK FKys 6 \$%&' Fy ýil \$%&' Oj KuQK WKREKFLÛQK FëD
 6 WUrQ P»W%&K·WU·QJ YßL WUÑQJ WkP WDP JLiF \$%& JyF W¥
 \$%&' Oj^R .KRßQJ FiFK Wi % 6ÃQ WKWRSß·EµQJ

$$\begin{array}{ccccccc} \$ & \frac{D}{\sqrt{}} & \% & \frac{D}{\sqrt{}} & \& \frac{D}{\sqrt{}} & ' & \frac{D}{\sqrt{}} \end{array}$$

&kX &KR NKÖL O QJ WUé W%& WtFK Oj 9 7KÇ WtFK FëD NKÖL F
 \$ - 9 % - 9 & 9 ' - 9

&kX &KR KuQK O QJ WUé WDP JLiF ýÅKÇFWtFK NKÖK DÃQJEWQJ

$$\begin{array}{ccccccc} \$ & \frac{a}{\sqrt{}} & \% & \frac{a\sqrt{}}{\sqrt{}} & \& \frac{a\sqrt{}}{\sqrt{}} & ' & \frac{a}{\sqrt{}} \end{array}$$

&kX &KR NKÖ \$%&FKys ý\$%&' Oj KuQK WKßL 6P¥QK&DÐ¥Q'K WKD\
 ýÛL 7KÇ WtFK OßQ QK&WtFK NKÖL FKys

$$\begin{array}{ccccccc} \$ & \frac{D}{\sqrt{}} & \% & \frac{D}{\sqrt{}} & \& \frac{D}{\sqrt{}} & ' & \frac{D}{\sqrt{}} \end{array}$$

&kX *LHR ý×QJ WKáL KDL FRQ V~F V³F X;©FWVKLëQ yFëDVÖ SFKÖP
 ýÅX Oj VÖ FK¹Q EµQJ

\$ % & '
 &kX &KR KuQK FKys 6 \$%&' ýil \$%&' Oj KuQK WISDQJDY&{QJDW¥
 JLóD KDL P»W SK·QJ 6%& YjñLS%&' Oj WµQJ ýLÇP FëD F¥QK \$'
 6%, Yj 6&, F·QJ Y×WQSKyFJY\$%&' ÖZKÇKysFK\$%&' WtQK WKHF

$$\begin{array}{ccccccc} \$ & \frac{a\sqrt{}}{\sqrt{}} & \% & \frac{a\sqrt{}}{\sqrt{}} & \& \frac{a\sqrt{}}{\sqrt{}} & ' & \frac{a\sqrt{}}{\sqrt{}} \end{array}$$

&kX &KR Kjp xV Ōx m C 7©W F§ FiF JLi W³Wĩ WÜĐF R[WçŁ
SKkQ ELĚW
\$ m % m & md ' m d
&kX &KR Kjp VŌ Fy ŷŹR Kjp WUrQ•W±SKLx*ŷŁŷmçF JŇL Oj ŷLÇP
ŷŹL FēD Kjp WŌQÃX
\$ f x ŷÙL G©X NKL [xŷk TXD JLi WUĩ
% f x
& f x ŷÙL G©X Wĩ kP VDQJ GmkQx NKL [ŷL TXD JLi WUĩ
, f x ŷÙL G©X Wĩ GmkQJ VDQJxkP NKL [ŷL TXD JLi WUĩ

+Â7

Tuyensinh247.com