

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

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 TXD_{S_{xq}}KFèD KuQK WUé

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_{√ x}

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& ∫ x dx $-\sqrt{x}$ C ' ∫ x dx $\frac{1}{\sqrt{x}}$ C

&kX %L&W_a WtQK JLD_aW_UĪ FèD

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&kX 6Õ QjR WURQJ FiF VÕ VDX Oj VÕ WKX«Q ŠR "

\$ $\sqrt{i}$ $\sqrt{i}$ % $\frac{i}{i}$
 & i ' $\sqrt{i}$ $\sqrt{i}$

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&kX 6Õ QjR WURQJ FiF VÕ VDX Oj VÕ WKõF "

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&kX 7uP QJX\rQ KjP F&D ~~KjP~~ VÕ

\$ ∫ x dx e^x C % ∫ x dx $\frac{e^x}{x}$ C
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&kX &KR NKÕL FABCEYĀW FKLĀX F&QKEjQaEj7QK WKQèWQFyK

\$ V a $\sqrt{a}$ %V $\frac{a}{\sqrt{a}}$ &V $\frac{a}{\sqrt{a}}$ ' V $\frac{a}{\sqrt{a}}$

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\$ y %x &y ' x

&kX &KR Kjp VÕ OLRQ MéFjWyrQŠQJ ELĀQ WKLRQ QKm VDX

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&kX 0ÝW EİF Q{QJ GkQ F«Q WtFK OÊ\ PÝQWŷVÖK MFL ÅQ LŷÇ ÑF Q%PF
JñL WLĀW NLĒP ŷ×QJ WKHRQW KÇ LWÇmFL QX©VM pSj Nă K¥Q

WKİQJ EİF JñL WKrP YjR FktQK VÙ VQŁĀW FĒLĒP ŷŷL Nă K¥Q ŷj
WUrQ 7tQK WÙQJ VŌ WLĀQ EİF QK±Q WmĀW WLĒP QjP MÇZQİ ŷN
%LĀW UμQJ EİF NK{QJ U~W YŌQ FĒQ QKŕ Āxm U~WU RQJm B K ŌWK ĀM
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e f OX
e x OX

$$I \int \frac{f(x)}{x} dx.$$

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&kX &KR NKŌLABD GŷĒQKÇVWYfKŷ DÇW UrQABF VQKRAE K BB 7tQK
WKÇ WtFK FĒBND ŌLKW R GLĒQ

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&kX &KR KŷPf XŌOLrQ MéFjWfFQŷR Q¥R XjFĒQJ O LrQ WĀFQ WĒRQ
GmBL Oj ŷ× WKİ XfēW UrQ>WŌQ

7URQJ FiF NK·QJ ŷİQK VDX NK·QJ ŷİQK QjR ŷ~QJ "

\$ $_{x\cdot} PLQx @ f$

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' $_{x\cdot} PLQx @ f$

&kX 7URQJ NKQJ FJL BQ DIA ŷLÇPB Yj P»W FSKFQ JSKmkQJ WU
x y z *ÑL Oj JyF QKÓ QK©WQPjŷL»W XSK·QBD LW ¥ BÇPBL F
SK·QJ 7tQK JLi FmVİ FēD

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Yj VŌ SKŷFSK«Q WKōF NK{QJ kP 7tQK GLĒQ WtFK FēD KuQK +

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&kX &KR FiF VÖ WkYzFWGnóQyP^aQyz ^b zx ^c Y&Lc•\ +m\ WtQI
P ORJ yORJz VÖHÖR

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&kX 1JmáL WD F³W PÝW Wá JL©\ KuQK YXWJKuFQKFEySQWí yÇiI
FKR EÖQ ýÍQK FëD KuQK YX{QJ GiQ HÖLSW«Q QKp \$ÍQKQFNÖ{QJQKQ
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&kX &KR KuQK KÝABCDABQÖ±Fy WKÇ WtFK EµWUÑQJ WkP FëD
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ÿmçF KDL KuQK QYQK WÖQVÖ WKÇ WtFK FëD NKÖL QYQ«QKQVRL©
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&kX 0ÝW YLrQ J¥FK KRD OiW WmáQJ Fy XGÖQmPñMLĂXQmYQKóQ
1JmáL WD YÁ QÝL WLĂS OrQ YLrQ WYFKOPÝWLKQQK¥FHÖĂSSK«QXQY
SK«Q W{ PjX WURQJ KuQK YÁ %YĂQVmNLÖÖL SFKtQYÇDRUQKQrXWML
Wut FKR PÝW YLrQ J¥FK NĂW TXS OjP WUZQ ýĂQ KjqJ ýkQ Yİ "

$\$ \quad \ddot{y} \times QJ \quad \% \quad \ddot{y} \times QJ \quad \& \quad \ddot{y} \times QJ \quad ' \quad \ddot{y} \times QJ$
 $\&kX \quad \&KR \quad QñD \quad KuQK \quad WABzQ \sqrt{\ddot{y}m \acute{a}tUjRQ \acute{t}yQKQJm \acute{a}L \quad WD \quad Y \acute{A} \quad P \acute{Y}W \quad SDUDI$
 $WkP \quad F \ddot{e}D \quad QñD \quad KuQK \quad WUZQ \quad WU \acute{e}F \quad \ddot{y} \tilde{O} \tilde{L} \tilde{A} \tilde{B} \tilde{I} \tilde{Q} \tilde{J} \tilde{D} \tilde{O} \tilde{P} \tilde{F} \tilde{R} \tilde{A} \tilde{Q} \tilde{B}^3 \quad Wt \tilde{Q} \tilde{K} \tilde{D} \tilde{Y} \tilde{X} \tilde{m} \tilde{A} \tilde{Q}$
 $\ddot{y} \tilde{L} \tilde{C} \tilde{P} \quad FiF \tilde{K} \tilde{m} \tilde{Q} \tilde{K} \tilde{J} \tilde{N} \tilde{K} \tilde{R} \tilde{S} \tilde{Q} \tilde{J} \quad FiF \tilde{K} \quad Wi \tilde{A} \tilde{B} \tilde{D} \tilde{E} \tilde{\mu} \tilde{Q} \tilde{L} \tilde{C} \tilde{Q} \tilde{K} \tilde{y} \tilde{X} \tilde{m} \tilde{A} \tilde{Q} \tilde{J} \tilde{y} \quad QJm \acute{a}L \quad WD$
 $E \acute{O} \quad SK \ll Q \quad KuQK \quad SK \cdot QJ \quad JL \beta L \quad K \neq Q \quad E \acute{a}L \quad Fj \acute{x} \acute{a} \tilde{Q} \tilde{J} \tilde{U} \tilde{W} \tilde{Q} \tilde{J} \tilde{Q} \tilde{u} \tilde{Q} \tilde{K} \tilde{S} \tilde{D} \tilde{A} \tilde{D} \tilde{E} \tilde{R} \tilde{H} \tilde{P} \quad S$
 $TXD \backslash \quad [XQJ \quad TAB \tilde{Q} \tilde{K} \tilde{Q} \tilde{K} \tilde{U} \tilde{W} \tilde{F} \tilde{Q} \tilde{D} \tilde{W} \tilde{N} \tilde{K} \tilde{O} \tilde{L} \quad WUZQ \quad [RD \backslash \quad \ddot{y} m \grave{c} F \quad W \neq R \quad WKjQK$

$\$ V \quad \frac{S}{\sqrt{\quad}} \quad cm \quad \% V \quad \frac{S}{\sqrt{\quad}} \quad cm$
 $\& V \quad \frac{S}{\sqrt{\quad}} \quad cm \quad ' \quad V \quad \frac{S}{\sqrt{\quad}} \quad cm$
 $\&kX \quad \&KR \quad K \grave{y} P f \times \tilde{O} \tilde{O} L r Q \quad W \acute{e} F \quad WURQ \quad N \tilde{K} \tilde{R} \tilde{S} \tilde{Q} \tilde{J} \tilde{y} \tilde{R} \quad K \tilde{J} \tilde{E} \tilde{Q} \tilde{J} \quad O L r Q \quad W \acute{e} F$
 $\times \quad W \tilde{K} \tilde{I} \quad F \ddot{e} D \quad K \tilde{J} P W \tilde{U} \tilde{O} \tilde{Q} \quad N \tilde{K} \tilde{R} \tilde{S} \tilde{Q} \tilde{m} \tilde{c} F \quad F \tilde{K} \tilde{R} \quad E \acute{a}L \quad KuQK \quad Y \acute{A} \quad G m \beta L \quad \ddot{y} k \backslash$

$7URQJ \quad FiF \quad P \ddot{E} QK \quad \ddot{y} \acute{A} \quad VDX \quad P \ddot{E} QK \quad \ddot{y} \acute{A} \quad QjR \quad \ddot{y} \sim QJ''$
 $\$ +jP \quad W \tilde{O} \tilde{f} \times \quad QJ \tilde{K} \tilde{I} \tilde{F} \tilde{K} \quad EL \tilde{A} \tilde{Q} \quad WURQ \quad N \tilde{K} \tilde{R} \tilde{S} \tilde{Q} \tilde{J}$
 $\% +jP \quad W \tilde{O} \tilde{f} \times \quad \ddot{y} \times QJ \quad EL \tilde{A} \tilde{Q} \quad WURQ \quad N \tilde{K} \tilde{R} \tilde{S} \tilde{Q} \tilde{J}$
 $\& +jP \quad W \tilde{O} \tilde{f} \times \quad \ddot{y} \times QJ \quad EL \tilde{A} \tilde{Q} \quad WURQ \quad N \tilde{K} \tilde{R} \tilde{S} \tilde{Q} \tilde{J}$
 $' +jP \quad W \tilde{O} \tilde{f} \times \quad \ddot{y} \times QJ \quad EL \tilde{A} \tilde{Q} \quad WURQ \quad N \tilde{K} \tilde{R} \tilde{S} \tilde{Q} \tilde{J}$

$\&kX \quad \&KR \quad K \tilde{J} P \times V \tilde{O} \tilde{L} r Q \quad W \acute{e} F \tilde{J} WURQ \quad \mathfrak{F} \quad x dx \quad 7tQK \quad \mathfrak{F} \quad f \quad \frac{x \mathfrak{S}}{\odot} dx \quad \cdot$
 $\$ I \quad \cdot \quad \% I \quad \cdot \quad \& I \quad \cdot \quad ' I \quad \cdot$
 $\&kX \quad \times \quad W \tilde{K} \tilde{I} \quad K \tilde{J} P \quad \frac{\sqrt{\tilde{V} \tilde{O}^x}}{x} \quad Fy \quad W \odot W \quad F \mathfrak{S} \quad EDR \quad QK L r X \quad \ddot{y} m \acute{a} QJ \quad WL \ddot{E} P \quad F \pm Q$
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 $\&kX \quad \&KR \quad KuQK \quad SK \tilde{A} \tilde{B} \tilde{C} \tilde{D} \tilde{y} \tilde{S} \tilde{y} \quad \tilde{y} \tilde{A} \tilde{B} \tilde{C} \tilde{D} \quad Oj \quad KuQK \quad Y \tilde{x} \{ \tilde{Q} \tilde{J} \tilde{y} \tilde{R} \tilde{A} \tilde{K} \tilde{Y} \tilde{X} \{ QJ \quad JyF \quad Y \beta L \quad P$
 $\ddot{y} i \backslash SA \quad a \quad 0 \gg W \quad S \tilde{K} \cdot Q \tilde{T} \tilde{X} \tilde{A} \tilde{D} \quad Yj \quad Y \tilde{x} \{ QJ \quad S \tilde{C} \tilde{F} \tilde{F} \tilde{Y} \tilde{S} \tilde{L} \tilde{S} \tilde{C} \quad S' \quad O \ll Q \quad O \tilde{B} \tilde{I} \tilde{c} \tilde{W} \quad W \neq L$
 $7tQK \quad W \tilde{K} \tilde{C} \tilde{F} \tilde{W} \tilde{D} \tilde{F} \tilde{K} \tilde{O} \tilde{L} \quad \ddot{y} D \quad G \tilde{I} \tilde{A} \tilde{C} \tilde{D} \tilde{F} \tilde{Q} \tilde{F} \tilde{I} \tilde{F} \quad \ddot{y} \acute{I} QK$
 $\$ V \quad \frac{a}{\quad} \quad \% V \quad \frac{a}{\quad} \quad \& V \quad \frac{a}{\quad} \quad ' \quad V \quad \frac{a}{\quad}$

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