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(I thi g[m 05 trang) 7KáL JLDQ OjP Ejl SK~W
&kX 7URQJ P»W Sx·Qk uWÑ FkYl ÅX YX{QJ JyFr QëyDm åQjPWK
d x y Fy WÑD ÿÝ Oj

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&kX 7±S QJKLEP FëD E⊗W SKmkQOjWUuQK
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&kX %©W SKmkQJx WUuQxKm QJKLEP ÿ~QJ·YBLKEÑL
\$ m > f %m · f &m · f ' m ·
&kX Ç ÿ× WKlÿ Knp Vnõ m mz Fy ÿíQK QµP WURQ xymáVQk uWK
m QK±Q JLi WUï QµP WURQJ NKR\$QJ QjR GmßL ÿk\

\$ % f & ' f
&kX 9ßL ÿLÅX NLËQ [iF ÿïQKÿ~QJ ÿ·QJ WKíF QjR
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&kX 9ßL P EµQJ EDR QMLUxQW KµP [SKmkQJ" Y{ QJKLE
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&kX &KR E©W SKmkQJ WUuQK ;iF ÿimQKÇ E©W SKmkQJ
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0(0; 1) (1 1) (31;1)
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&kX &KR KĚ SKmkQJ WUuQK WKDP VÕ VĚQK ŷÅ QjR

\$ +Ě , Fy QJKLĚP GXVQK Wm 1 WKu KĚ , Fy Y{ VÕ QJH
&.Km 1 WKu KĚ , Fy Y{ QĚKLĚP Fy Y{ VÕ QJKLĚP

&kX &KR KijP VÕ x Fy ŷ× WKĪ QjS VŃ ŷmáQJ WK·QJ ŷL TX
Yj Fy KĚ WÕ; iFy Fy kQK DRd FK³FW ŷ× WWKĪ KDL ŷL ĆPF S KWKQ EĚĚ Ć
'OEF YX{Q W VŃj JÕF WŃD ŷÝ .KL ŷy

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&kX 3KmkQJ WUuQK WKDP VÕ FĕD ŷmáQK WQK·QJ QjLP TXpF ŷL
Wk FKÍ SKmkQJ Oj

\$ ^{-x}Ⓡ_y ^tt % ^{-x}Ⓡ_y ^tt & ^{-x}Ⓡ_y ^tt , ^{-x}Ⓡ_y ^tt

&kX *L§L SKmkQJ WUuQK 2

A.1x 4. B.1x 4. 2√2. D.1x 6.

&kX &K\$%& Fy FBCF aFAĈ QbK c WK Ó D\$ P m Q K F W KŃjF
WDP JLiF

\$ &kQ W¥L &%9X{QJ W¥L &&kQ W¥L \$ ' ÅX
&kX &K\$%& Fy FiBCF X QK b c 'LĚQ W\$\$\$%&FQj

\$ S_{ABC} - acV LQ % S_{ABC} - bcV LQ & S_{ABC} - acV LQ ' S_{ABC} - bcV LQ

&kX 7uP PĚQKQJÅ

\$ a b aœ bc % a b aœ bc !

a b aœ b c , ^{-a}Ⓡ_c d aœ bd

&kX &K^G Ć b^G YX{QJ JyF^G a^G b^G YX{QJ yJ^G Fb^G YβL^G

.KL ŷy JyF JLó QKLE F Wk
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&kX *ÑL 6 Oj W±S QJKLĚP FĕD E©W S/KmkQJ±WUuQK VDX ŷk
SK«Q E• FĕD W±S 6"

\$ f %> f % f %> f & f %> f ' f

&kX 7DP WKÍF QjR GmβL ŷk\ OX{Q GmkQJ YβL PÑL JLi WUİ

\$ x x %x x & x x ' x x

&kX 7uP W©W F§ WKDP V(ñ²P9)Ç rS K3mQQJ WËPu QhQJ. YßL
 \$m 3 %m v 3 &.K{QJ W×Q WmL P
 &kX *Li WUİ OßQ QK©W Yj JLi Wxİ QKó QK©W UFrQ yRj PQV Õ
 Oj

$$\$ y_{PLQ} - y_{PD[} \qquad \% y_{PD[} - y_{PLQ}$$

$$\& y_{PLQ} - y_{PD[} \qquad ' y_{PD[} y_{PLQ} -$$

&kX &K'F\$ %& E©WBCñ äa XßLb c ÿ·QJ WñFLQjR
 \$ b a c ac F R V % %a b c bc A F R V
 &c b a ab F R V & ' c b a ab F R V &

&kX 7tQK WÜQJ WLEW F§DFISKQK3x W2uXK2.

$$\$ \frac{3}{2}. \qquad \%1. \qquad \& 3. \qquad ' 2.$$

&kX 3KmkQJx⁴WukQ5 0Fy EDR QKLrX QJKLEP WKöF
 \$ % & '

&kX &KR WDP JLiF \$%& Sy-GLKDLWíQK EßQJ 7UÑQJ WkP

* QµP WUrQ ŷmáQJ WK7QB WñD ŷÝ ŷíQK &"

$$\begin{array}{cc} \$ C & M \\ & \%C & M \\ \& C & M & ' C & M \end{array}$$

&kX &KR KJP VÖyEaF hD Lc a v0 Fy ŷP WñíQKPFëymçF [iF
 ŷíQK EäL F{QJ WKíF QjR "

$$\$ I \frac{\frac{b}{2}}{2a}; \frac{\%}{4a\tilde{y}} \qquad \%I \frac{\frac{b}{2}}{2a}; \frac{\%}{4a\tilde{y}} \quad \& I \frac{\frac{b}{2}}{2a}; \frac{\%}{4a\tilde{y}} \quad \quad ' I \frac{\frac{b}{2}}{2a}; \frac{\%}{2a\tilde{y}}$$

&kX 7URQJ P»W SK·QJ yWßP \$Ý 2[\ FKR máQJ Wk·QJ

$$\begin{array}{ccccccc} 7uP & WñD & \tilde{y} & \tilde{y} & \tilde{y} & L\grave{C}P & 0 & W & W & X & D & F & F & y & m & R & a & Q & 0 & W & K & \cdot & Q & J \\ \$ M & M & \%M & M & \& M & M & ' M & M \end{array}$$

&kX &KR FiF ŷLÇP \$%± ±& ± 7ñD ŷÝ WUÑQJ WkP * Oj

$$\begin{array}{ccccccc} \$ G & \frac{\$}{\textcircled{C}} & \%G & \frac{\$}{\textcircled{C}} & \& G & \frac{\$}{\textcircled{C}} & ' G & \frac{\$}{\textcircled{C}} & \cdot & \\ & & \textcircled{1} & & \textcircled{1} & & \textcircled{1} & & \textcircled{1} & \textcircled{1} \end{array}$$

&kX 3KmkQJ WUuQK WÜQJ TXiW FëD ŷmáQJ WKOPJ yPFTWß
 SKiS WX\ÃQ Fy SKmkQJ WUuQK Oj

$$\begin{array}{ccccccc} \$ x & y & \%x & y & \& x & y & ' x & y \end{array}$$

&kX &»S VÕ [\ QNR{QJXQJ KLEP FëD SKmkQJ WUuQK

$$\begin{array}{ccccccc} \$ x;y & \frac{5}{2}; 0\tilde{y} & \%x;y & 1; 1 & \& x;y & \frac{5}{2}; 3\tilde{y} & ' x;y & 2; 3 \end{array}$$

&kX LÅX NLËQ FëD E©W!SKñjQJ WUuQK

\$ x ! % x z x z ' x
 &kX &KR FiF Vöy GmWQÓDyzPm.QKL ÿy JLi WUİ QKÓ QK©W FëD
 P $\frac{\sqrt{x y}}{xy}$ $\frac{\sqrt{y z}}{yz}$ $\frac{\sqrt{x z}}{xz}$ Oj
 \$ $\sqrt{}$ % $\sqrt{}$ & $\sqrt{}$ ' $\sqrt{}$
 &kX 7uP KjP VÕ E±FÃQDWKÿrESQJKmLKuQK YÁ GmßL ÿk\

\$ y x² 4x 5 %y x² 4x 3
 &y x² 4x 5 ' y x² 2x 2
 &kX &KR WABC JÑIE Oj KDL ÿLÇP ÿmAFiFA ÿJQK EãLE J
 WKíFÿQjRJ"
 JG JJJG G JJJJJ G G J JJJJJGJ G J JJJJJGJ GGJ J J
 \$ IJ -AC AB %IJ -AB AC &IJ -AB AC ' IJ -AC AB
 &kX &KR SDUDyESKQmKQJF WßuQK 4 7uP WUéF ÿÕL [íQJ FëD
 \$ x $\frac{2}{3}$ %x $\frac{1}{3}$ &x $\frac{2}{3}$ ' x $\frac{1}{3}$

&kX &KVLQ- D 7tQK D
 \$ cR D - %cR D - &cR D - ' cR D -
 &kX 7URQJ P»W SK·QJ 2H\ \$ % & RFyWDP± JL± FxBL%ÿmYQ& . Fy
 SKmkQJ WUuQK O«Q OmçW Oj [± W SKmkQJ WUuQK ÿmáQJ
 WtQK GLËQ WtFK WDP JLiF \$ % &
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&kX &KR + Oj ÿ×fWKKi√KjPxVÕ |x | ;pW FiF PËQK ÿÅ VDX
 , + ÿÕL [íQJyTXD WUéF ,, + ÿÕL [íQJ TXD WUéF
 ,,, + NK{QJ Fy WkP ÿÕLÿíQJ 0ËQK ÿÅ QjR
 \$ &KíFy , ÿ~QJ Yj ,,, ÿ~QJ Yj ,,, ÿ~QJ KíFy , , ÿ~QJ
 &kX &KR PËQK yR%³ x 7 0' +ÓL PËQK ÿÅ QjR Oj PËQK ÿ
 PËQK ÿÅ WUrQ"
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 & [•5 Pj f [t ' x R,%² x 7 0 b
 &kX %©W SKmkQJ WBytQK±S QJKLËP Oj
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&kX +m\ OLËW Nr FiF SK«QxWñ/Fx% Dx W±S\ KçS ;

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 &kX &kX QjR WDXQK\PEQK yÅ"
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 &kX .KRSQJ FiFK Wi yLÇP 2 x yÃQ yonjáQJ WK·QJ
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 &kX &KR ymáQJ Wk·yQJ 9pF Wk QjR VDX yk\ Oj Ydp'F Wk SI
 \$ n %n & n ' n
 &kX *Li WpZi Oj yLÅX NLËQ FëD SKmkQJ WUuQK QjR"
 \$ x \frac{1}{x^2} 2x 1 %x \frac{1}{x} \sqrt{x^2} 0
 &x \frac{1}{4x} \sqrt{x^2} ' x \frac{1}{\sqrt{x^2}} 0
 &kX &K\$%& YX{QJ VABCB\$ EACACV .KLAB¥AC BC Fy yY GjL Oj
 \$ \sqrt{} % & \sqrt{} ' \sqrt{}
 &kX 7uP P yÇ SKmkQmk WUuQKFy QJXLËØj yY GjL FiF F¥Q
 YX{QJ FëD PÝW WDP¥QKFKYXÅQJFYßLY GjL EμQJ Oj
 \$ m• %m \sqrt{} & m • ' m•‡

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