

6â *' ± 7 9-1+ 3+Ò& Ä .+|2 6È7 Ð1 7+, 7+37 48Ô& *, \$ /ª1
75lâ1* 7+37 %Î1+ ;8<Ç1

0Ð1 72È1
7Kál JLDQ OjP EjL SK~W

+Ñ Yj WrQ WKt VLQK

6 %'

0m ÿÅ WKL

C@u1: &KX Nä WX«Q KRjQWFDQJkJP VÕ

\$ S % S & S ' S

C@u2: .K·QJ ŷİQK QjR VDL

\$ 3KpS WİQK WLÃQ ELÃQ ŷR¥Q WK·QJ WKjQK ŷR¥Q WK·QJ ΕμQ

% 3K\$WİQK WLÃQİE LÃQİWKFDQJ

& 3KpS TXDİÁQJŷQ ŷzQ WKjQKŷR¥QJ MQ NtQK

' 3K\$TXDELÃQŷW K·WKjQK·QJQ R»FJW BŁQqy

C@u3: 3KmkQJ xWUxQK x $\sqrt{x}$ $\sqrt{x}$ Fy PÝW QJKLĖPŷQub!

.KL ŷyb

\$ % & ' S

C@u4: *Li WUİ QKÓ QKy©WVŁQ-KjØj VÕ ·
© ·1

\$ % & ' S
C@u5: 3KmkQJ WUuQK VLQ [FFW [FİF QJKLĖP Oj

$\begin{matrix} a & S & & S & a & S & a & S & S & N & a & S & S & N \\ \ll & -[& S & N & \ll & -[& S & N & \ll & -[& S & N & \ll & -[& S & N \end{matrix}$
\$ $\begin{matrix} \ll & S & & S & \ll & S & \ll & S & \ll & S & \ll & S & \ll & S & \ll & S \\ \ll & -[& S & N & \ll & -[& S & N & \ll & -[& S & N & \ll & -[& S & N \end{matrix}$
\$ $\begin{matrix} \ll & S & & S & \ll & S & \ll & S & \ll & S & \ll & S & \ll & S & \ll & S \\ \ll & -[& S & N & \ll & -[& S & N & \ll & -[& S & N & \ll & -[& S & N \end{matrix}$

C@u6: 1JKLĖP FèD SKRQJ WUQQK

\$ x $\frac{S}{k}$ S % x $\frac{S}{k}$ S & x $\frac{S}{k}$ S , x $\frac{S}{k}$ S

C@u7: 7±S [İF ŷİQK FyD $\frac{x}{\sqrt{x}}$ KjPOMj

\$ f % > f & f ' \ ?

C@u8: *Li WUİ QKÓ QKy©WVŁQ-KjP RQ-S·WURQ ŷR¥QOj ·
© ·1 ¼

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

C@u9: 3KmkQJ WUuQK ŷmáQJ WKjQKŷR¥QJ JtYFDYBL ŷmáQJ WKQJQJ

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

C@u10: 3KmkQJ WUuQK Fy P©İ QJKLĖP WURQJ-QñD NKR $\frac{0}{14}$ QJ
© ·1 ©

\$ % & ' S

C@u11: 7URQJ FİF KjP VÕ VDX KjP VÕ QjR Oj KjP VÕ Oı

\$ y FRV VLQ % \ VLQ [& \ VLQ [FRV [' \ FRV [

C@u12: 3KmkQJxWUuQK Fy KDL QJKLĖP GmkQJ SKkQ ELĖW NKL

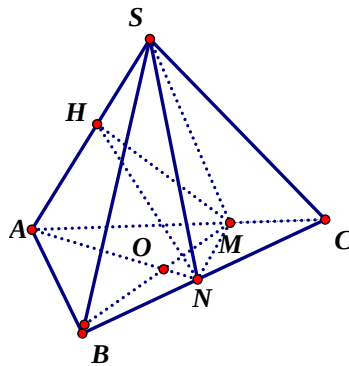
\$ m % m & m ' md d

C@u13: 7±S [İF ŷİQK FyD $\frac{x}{\sqrt{x}}$ KjP VÕOj ·
© ·1

\$ $\frac{S}{k}$ S \ ® % · ® $\frac{S}{k}$ S \ $\frac{1}{2}$ S & D · $\frac{1}{2}$ D \

C@u14: &KR KuQK FKyS 6 \$ % & Fy \$ % & Oj WDP JLiF QKm KuQK YÁ E

7UDQJ 0mÅWKL



- 9BL 0 1 + O«Q OmçW Oj FiF ŷLÇP WK·QJ FIFNK·QJ \$&Q
 \$% *ÑL 2 Oj JLDR ŷLÇP FëD KDL ŷmáQJ W·QJ \$ŷmáQJ %0 Y*
 .K·Q ŷİQK QjR W·QJ KJŷ~Q
 \$ 7 Oj JLDR ŷLÇP FëD WK·QJ 62 YBL +0
 % 7 Oj JLDR ŷLÇP FëD WK·QJ + ŷYBL %0
 & 7 Oj JLDR ŷLÇP FëD WK·QJ + ŷYBL 6%
 ' 7 Oj JLDR ŷLÇP FëD WK·QJ 1+ YBL 62
- C©u 15: 9HFWk FKÍ SKmkQJ FëD ŷmáQJ WK·QJ
 \$ u G % u G & u G ' u G
 C©u 16: 1JKLĚP FëD SKmkQJ WUuQK FRV VLQ
 \$ x — kS % « S kS & « S kS ' « S kS
 C©u 17: 3KmkQJ WUuQK VLQ[± FRV[EDR QKVLX QJLQĚP SWKXÝF ŷR¥
 \$ % & '
 C©u 18: 3KmkQJ WUuQK FRVx FRV FYLQJKLĚPaS4QbS Y&b t .KL
 ŷya b Fy WKÇ QK±Q JLi WUİ QjR WURQJ FiF JLi WUİ VDX
 \$ % & '
 C©u 19: 7tQK FK©W QjR VDX ŷk\ NK{QJ SKSL"Oj WtQK FK©W FëD SKp
 \$ %LĂQ ŷmáQJ WUzQ Fy F·QJ EiQ NtQK
 % %LĂQJWDPWKjQKFWEDQ ELĂQ WLD WKjQK WLD
 & %LĂQ ED ŷLÇP WK·QJ KJQJ WKjQK ED W·QJ FëD WK·QJ ŷYj E
 ' %LĂQ ŷR¥Q WK·QJ WKjQK ŷR¥Q WK·QJ FëD QJŷX GJL J©S N O«Q
- C©u 20: &KŇQ NK·QJ ŷİQK VDL WURQJ FiF NK·QJ ŷİQK VDX
 \$ FRa/ b FRV FRV b VLQ VLQ VLQ b aVLQ FRVb FRV VLQ
 & VLQ b aVLQ FRVb FRV VLQ FRV VLQ
 C©u 21: &KR WDP JLiF \$%& Fy W·QJ W·QJ FëD W·QJ YQjWkP ŷmáQJ WU
 JLiF O«QGOmçW Oj 7uP WŇD ŷY ŷİQK & ELĂW & Fy KRjQK ŷ
 \$ C % C & C ' C
 C©u 22: &KR D E Oj KDL FRV QKŇQ FRV%LĂWUİ FëD PEERax bWK FRV
 İµQ
 \$ — % — & — ' —
 C©u 23: 1JKLĚP FëD SKmkQJ WUuQK
 \$ x — kS % x — kS & x — kS ' x — kS

\$ x $\frac{S}{-}$ k Sx $\frac{S}{-}$ k S % x $\frac{S}{-}$ k Sx $\frac{S}{-}$ k S
 & x $\frac{S}{-}$ k Sx $\frac{S}{-}$ k S ' x $\frac{S}{-}$ k Sx $\frac{S}{-}$ k S

\$ % & ' ,

\$ % & #

$$\$ \quad \backslash \quad \% \quad [-] \quad \& \quad [-\pi \pi] \quad , \quad [\pi]$$

\$ 7 D 0 L i F % 1 0 J L i F & 7 D 0 L i F F k Q ' 7 í J L i F

\$ % &

\$ % &

\$ \quad \% \quad m \quad \cdot \quad f \quad \& \quad / \quad ' \quad m \quad \cdot \quad f

\$ % & ' ,

\$ m • % m • f % & f m « a f m —. § f m
1 © 1

	\$	%	&
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
41			
42			
43			
44			
45			
46			
47			
48			
49			
50			
51			
52			
53			
54			
55			
56			
57			
58			
59			
60			
61			
62			
63			
64			
65			
66			
67			
68			
69			
70			
71			
72			
73			
74			
75			
76			
77			
78			
79			
80			
81			
82			
83			
84			
85			
86			
87			
88			
89			
90			
91			
92			
93			
94			
95			
96			
97			
98			
99			
100			

a e b d • . K L yay c b d E!µ Q J

\$ 5 % & ,

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

7 U D Q J 0 2 m Å W K L

C©u 39: *Li WUİ OßQ QK©W Yj JLiYWUİ-QKÖ R K©W FëD KjP VÖ

\$ Max y=— Min y=— % Max y=— Min y=—

& Max y=— Min y=— ' Max y=— Min y=—

C©u 40: 1JKLĚP FëD SKmkQJ WUjuQK FRV

\$ x k s % x S k S & x $\frac{S}{-}$ k s ' x $\frac{S}{-}$ k S

C©u 41: .KR§QJ ŷ×QJ ELĂQ FxëD xKjPOŷÖ

\$ f % f & f ' f

C©u 42: 6Ö QJKLĚP FëD K $\frac{-x}{x}$ SKmkQJ WUuQK

\$ % & '

C©u 43: 7±S QJKLĚP FëD E©W SKmkQJ WUuQK

\$ > f % f @ & > @

C©u 44: &y EDR QKLrX P»W SK·QJ ŷL TXD ŷLÇP SKkQ ELĚW NK{QJ

\$ 9{ VÖ % & '

C©u 45: $x = \frac{\pi}{3} + k2\pi$ Oj QJKLĚP FëD SKmkQJ WUuQK QjR VDX ŷk\

\$ $2\cos x - \sqrt{3} = 0$ % $2\sin x + \sqrt{3} = 0$ & $2\sin x - \sqrt{3} = 0$ ' $2\cos x + \sqrt{3} = 0$

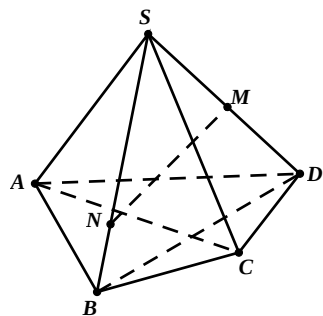
C©u 46: &KR= $\frac{\pi}{2} + k\pi$ Oj QJKLĚP FëD SKmkQJ WUuQK QjR VDX ŷk\

\$ $\cos 2x = 0$ % $\cos 2x = -1$ & $\sin x = 1$ ' $\sin x = 0$

C©u 47: &KR ŷmáQJ WKyQJ !QK FëD ŷmáQJ WK·QV_oG Oj DmáQJ WK·QV_oG
SKmİQWUuQK

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

C©u 48: &KR KuQK FKyS 6 \$%&' Fy ŷi\ \$%&' Oj PVRQJWYßLi&' \$%ÑNLKQ Q
ŷLÇP FëD 6' 1 Oj ŷLÇP QµP SMURQF*LR 6%ÇPDRëDKR1 YßL
ŷLÇP . +m\ FKÑQ FiFK [iF ŷİQK ŷLÇP J ŷQ QJDK©W WURQJ E



\$. OjLDR ŷLÇP FëD 01 YßL \$% . OjLDR ŷLÇP FëD 01 YßL \$%
& . Oj JLDR ŷLÇP FëD 01 YßL' %& Oj JLDR ŷLÇP FëD 01 YßL %'

C©u 49: &KR WDP JLiW \$%&FyWUXQJ ŷLÇP FëD \$%ANŷmáQJ WUXQJ WX
ŷmáQJAHDR y 3KmkQJ WUuQK ŷmáQJ WK·QJ \$& Oj

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

C©u 50: &KR Wí GLĚQ \$%&' *ÑL 0 Oj WUXQJ ŷLÇP FëD D& FKUR \$ F¥QK
F¥QK %& O©\ ŷLÇP 4 VDR FKR %& Q4 WİLQJ Oj 1JYDR»W ÇP
%&' - Oj JLDR ŷLÇP FëD ŷmáQJ WK·QJ ŷy% JB JO
JD JI FxW JSK·QJ 0

\$ — % — & — ' —

[illegible]