

6ã *' 7 WÍQK xQJ 1DLÄ 7+, *, ò\$ +Đ& 1ã0, +Đ &
7UmáQJ 7+37 1JX\ÉQ %ÍQK .KLr Môn :Toán ; khY10
TJToán Thè gian làm bài: 90 phút , không khè gian phát ý l

Om ý Ä WKL

, 3K«Q 7U³F 1JKLËP ÿ
&kX 7URQJ FiF SKiW ELÇX GmßL ÿk\ FkX QjR Oj PËQK ÿÄ FKÍD E
\$ 6Ö Oj VÖ FK¹Q %%¥Q Fy FK P KÑF NK{QJ"
&4 x 3 ' +{P QD\ WUál ÿ½S TXi
&kX &KR PËQK ÿÄ 3 ¶¶ 1ÄX D FKLD KÄW FKR WKu D NK{QJ FKLD KÄW FKR
\$ 1ÄX D FKLD KÄW FKR WKu D NK{QJ FKLD KÄW FKR
%1ÄX D FKLD KÄW FKR WKu D FKLD KÄW FKR
&1ÄX D NK{QJ FKLD KÄW FKR WKu D FKLD KÄW FKR
' 1ÄX D FKLD KÄW FKR WKu D NK{QJ FKLD KÄW FKR
&kX 7URQJ FiF PËQK ÿÄ VDX PËQK ÿÄ QjR ÿ~QJ"
\$ x \ %² 0 % x % 3 # & x \ %² 0 ' x \ % x²
&kX √2 WKXÝF W±S KçS QjR VDX ÿk\
\$ ' % _ & |]
&kX &KR Oj PÝW SK«Q Wñ FñD QW±S KçS QjR VDX ÿk\ Oj ÿ~QJ"
\$ x %A %x ŠA & A †x ' A %
&kX /BS \$ Fy KÑF VLQK WKtFK EyQJtFK EyQJ FKKtFAQ EkLKV WK
EyQJ ýi KV WKtFK EkL Yj EyQJ FKXVQJ FKXVQJtFK VE YQKJtFK
NK{QJ WKtFK P{Q QjR F§ 7tQK VÖ KV FëD OßS "\$
\$ % & '
&kX &KR W±S KçS \$ Yj W±S KçS % 3KpS KçS FëD \$ Yj % Oj
\$ A ,B %A\B & A fB ' A †B
&kX &KR A%B ,KL ÿy NK·QJ ÿİQK QjR VDX ÿk\ Oj ÿ~QJ
\$ x %A %x ŠA & x ŠA ' x %A
x %B %x ŠB & x %B ' x %B
&kX &KR x \ % x 5\ YB b 0;1;2;3 7 A PB ^" ^
\$ A\B 4; 3; 2; 1;4;5 %A\B 3; 2; 1;4 ^ ^
& A\B 4; 3; 2; 1;0;1;2;3;4;5 ' A\B 0;1;2;3 ^ ^
&kX &KR NK R (S Q; Jd) YB (3;) d 7 DA FB, NK L
\$ m 3 %m b 3 & m 3 ' m p 3
&kX I Oj WUXQJ ýLCP ABè DN K R YQ FKKÍ QJKL J GJJGG J J G
\$ IA IB %IA IB 0 & IA IB 0 ' IA IB
JJG JJJG JJJG JJJG
&kX &KR YBC Ý G j ABF BD Oj JJJG JJJG
\$ AC %AB & BC ' AC
G GJ JJ Ø J JG J G J J
&kX &KR A,B,C,D 7tQK WUQJv FAB DGFBDk CA
\$ v 2/3 AC %v 1/3 AC & v AC ' v 0

&kX &KR KuQK ABCD K Ñ M O « Q Omç W Oj BCUXQJ yLÇP ANF ë D
 b AN +m\ ELÇX ACÉW HFK Wk
 JJJG₁ G₂ JJJG₂ G₃ G JJJG₂ G G JJJG G G
 \$ AC $\frac{1}{3}a$ $\frac{2}{3}b$ %AC $\frac{2}{3}a$ $\frac{2}{3}b$ & AC $\frac{2}{3}a$ 4b ' AC a 3b

&kX &KR W ABCJLMF Oj yLÇP W2MAD CA mCAC AB CB | .KL y y
 \$ M wB %M Oj WUXQJBC LÇP FëD
 &M WKXÝF ý má QJ EWQ zBCWK PM WKXÝF ý má QJ ý má zCBW KPK

,, 3K«Q 7ö /X±Q y

&kX /yS PËQK yÅ SKë yİQK FëD PËQK yÅ J V X X \ W Ë Q K yÅ SKë

A " x \,x% 6x 9 0" b

&kX &yKRA x]/(x%1)(5x 3x³)(x² 2x 3) 0\

/LËW Nr FiF SK«Q Wñ FëD W±S \$

&kX &yKAR 5;7,ç B 3;10,ç 7 A B A B A B C_RA

&kX 7yP W±S [iF yİQK FëD FiF KjP VÕ VDX

D y $\frac{x^2}{2x} - \frac{1}{6}$

E y $\sqrt{x-4}$

&kX &yKR KuQK FKó QK±W \$%&' *ÑL 2 OR JLOD BjyRÇW FëD PKW
 JJJG JJJG JJJG JJJG JJJG
 &KíQJ PLQK MB QMC MD MO

&kX &yKR WDP JLiF \$%2 FiF yLÇP & ' (Q « Q DACVAB µP WUrC

OD=-OB OE=-OA &KíQJ PLQK UµQJ yLÇP & ' (WK·QJ KjQJ

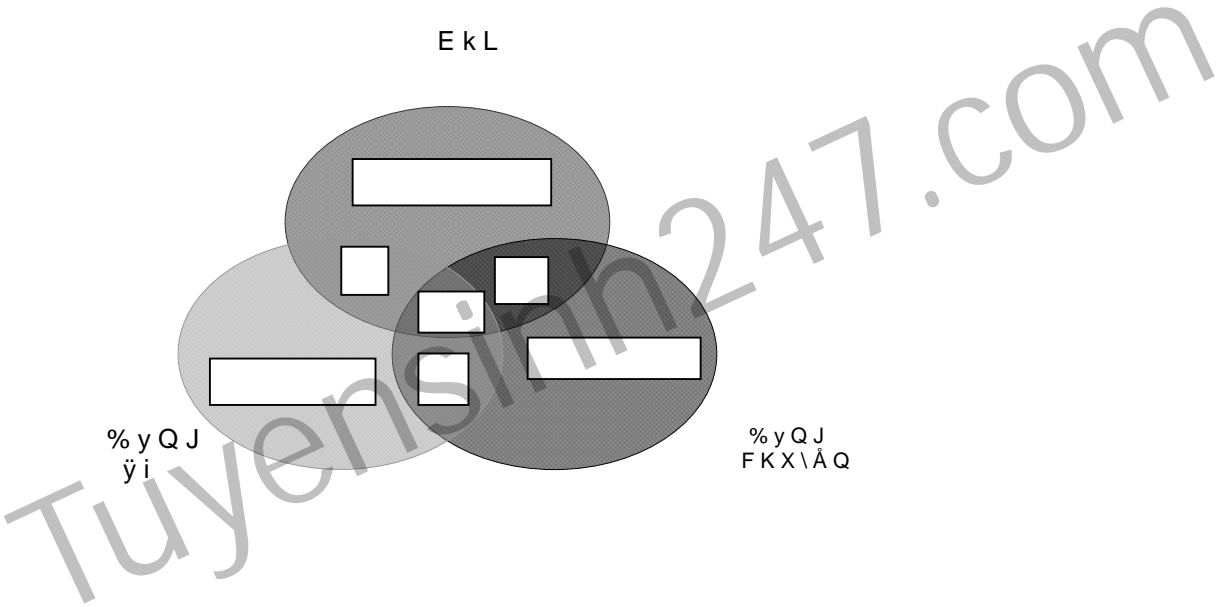
+Â7

3K«Q 7U³F 1JKLÈP

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

&kX

EKL



%yQJ
ÿi

%yQJ
FKX\ÀQ

6 Õ KÑF VLQK FèD OBS Oj KV

&kX

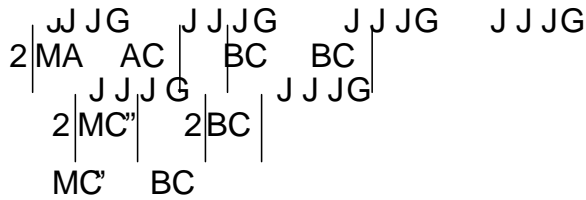
JJG JJG JJG
 7D AC AN NC J J J G
 AC AM MC

6X\ UD

JJG GJJJJG JJG JJG
 2AC AM AN NC MC
 G 1 G 1 G J J J J G
 b a $\frac{1}{2}$ AB $\frac{1}{2}$ AD
 G G² J²JG JJG
 b a $\frac{1}{2}$ (AB AD)
 G 2 G J J J G
 b a $\frac{1}{2}$ AC

$\frac{3}{2}$ JJG G GJJG₂ G G
 AC a b AC $\frac{2}{3}$ a $\frac{2}{3}$ b

& k X



9 ± \ 0 O j ŷ L Ç P W K X Ý F ŷ m á Q J W U z Q W k P & E i Q N t Q K % &

3 K « Q 7 õ / X ± Q

& k X	$\bar{A} = \forall x \in \mathbb{R} \ x - x + >$ 0 Ë Q K ŷ Å Q j \ O j P Ë Q K ŷ Å V D L	ŷ ŷ
& k X	$A = \{- \}$	0 Û L S K « Q W ñ ŷ ~ Q J ŷ m ç F ŷ
& k X	$A \cap B = [\] \xrightarrow{\{ \}}$	ŷ
	$A \cup B = [- \] \xrightarrow{\{ \}}$	ŷ
	$A \setminus B = [- ? \) \xrightarrow{\{ \}}$	ŷ
	$C_{\mathbb{R}} A = (-\infty -) \cup (+ \infty) \xrightarrow{\{ \}}$	ŷ
& k X	$y = \frac{x +}{x -}$ + j P V Õ F y Q x K - D Æ K Æ 7 ± S [i F ð Ì Q K { ? }	ŷ ŷ
	$y = \sqrt{x +}$ + j P V Õ F y Q x K ≥ D Æ N K Æ L 7 ± S [i F ð Ì Q K + ∞)	ŷ ŷ
	$\overline{MA + MB + MC + MD} = \overline{MO}$ 7 D F y	ŷ ŷ ŷ

<p>& k X</p>	$\begin{aligned} \overrightarrow{VT} &= \overrightarrow{MO} + \overrightarrow{OA} + \overrightarrow{MO} + \overrightarrow{OB} + \overrightarrow{MQ} + \overrightarrow{OQ} + \overrightarrow{MQ} + \overrightarrow{OD} \\ &= \overrightarrow{MO} + \overrightarrow{OA} + \overrightarrow{OC} + \overrightarrow{OB} + \overrightarrow{OD} \\ &= \overrightarrow{MO} + \overrightarrow{OC} \\ &= \overrightarrow{MO} = \overrightarrow{VP} \end{aligned}$	<p>ÿ</p>
<p>& k X</p>	<p>» $\overrightarrow{OA} = \vec{a}$ $\overrightarrow{OB} = \vec{b}$</p> <p>$\overrightarrow{CD} = \overrightarrow{OD} - \overrightarrow{OC}$</p> <p>9 u $\overrightarrow{AC} = \overrightarrow{AB} + \overrightarrow{BC}$ Q r $\overrightarrow{OC} - \overrightarrow{OA} = \overrightarrow{OB} - \overrightarrow{OA} \Leftrightarrow \overrightarrow{OC} = -\overrightarrow{OA} + \overrightarrow{OB} = -\vec{a} + \vec{b}$</p> <p>9 ± \ $\overrightarrow{CD} = \overrightarrow{OD} - \overrightarrow{OC} = \overrightarrow{OB} - \vec{b} + \vec{a} = \vec{a} - \vec{b}$</p> <p>$\overrightarrow{DE} = \overrightarrow{OE} - \overrightarrow{OD} = -\vec{a} - \vec{b}$</p> <p>7 i $\Rightarrow \overrightarrow{DE} = -\overrightarrow{CD} \Rightarrow \overrightarrow{DE} = \overrightarrow{CD}$ YQD F • QJ SKmkQJ</p> <p>9 ± \ $\vec{L} \cdot \vec{P} \cdot \vec{Q} = (\vec{W} \cdot \vec{K} \cdot \vec{Q} \cdot \vec{J} \cdot \vec{K} \cdot \vec{J})$</p>	<p>ÿ</p> <p>ÿ</p> <p>ÿ</p> <p>ÿ</p>

+ Â 7