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 (50 câu trắc nghiệm)

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 %jL WKL 7 2 È1
 Thời gian làm bài: 90 phút, không tính thời gian phát ý l

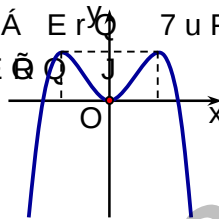
+Ñ Yj WrQ WKt VLQK

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(Thí sinh không được sử dụng tài li O)

&kX &KR Kjp vÕ x Fy ÿ× WKİ QKm KuQK YÁ ErQ 7uP W©W FŞ F
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 QJKLËP WKõF SKkQ ELËW
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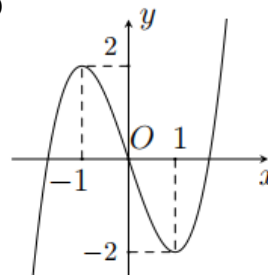
&kX 7URQJ NKQJ JLDQ SK·QJ QjR GmßL ÿkl VRQJ" VRQJ YßL P»W
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&kX %LÃW Kjp Vx Qn xFRV VxQ xFRV ÿ ≠ W JLi WUİ Qß Eµ QK © W Ë Q K r QÁ QjR V
 ÿ~QJ"
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&kX 7URQJ NK{QJ JLDQ WKND P»WPSK·QJ z Yj ÿm á QJ WK·Q
 d x y z 6LQ FèD JyF JLáD ÿm á QW WK·QJ
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&kX 7URQJ NK{QxyzJLDQ KDLA ÿLÇP B Yj P»W SK·QJ
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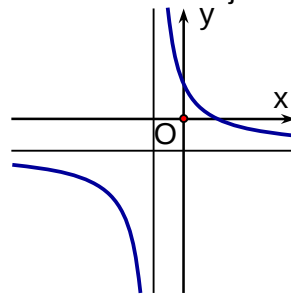
&kX &KR Kjp vÕ Fy ÿ× WKİ QKm KuQK ErQ Õ ÿm FKF
 QJKİFK ELÃQ WURQ NKRŞQJ QjR GmßL ÿkl"
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&kX &KR f x a dx *Li WUİ Fx DEµQJ
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&kX máQJ FRQJ WURQJ KuQK Oj ý× WKİ FëD Kjp VÕ QjR GmßL ý

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&kX &KR KuQK OABCDABCDQBy FëQK EİİLOj JyF JLóD ýmáQJ WK·QJ
P»W SİBBQD c7tQKQ

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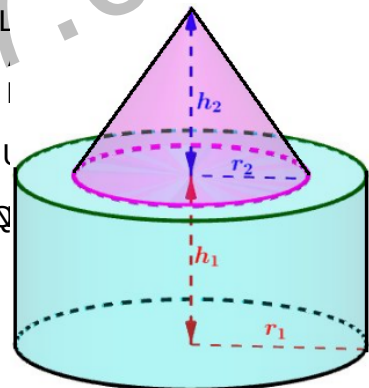
&kX %İÃW $\frac{dx}{x}$ a OQb OoQ WQ RaQJc ýÿ 7tQK JLi a WUd

\$T %T &T 'T
&kX 0ÝW NKÖL ý× FKkL JN P[İŞWFKKÖJ
NKÖLTWUéKÖT WyUÉİQ NtQK ýİ\ Yj FKL
r h .KÖL NQyEy EiQ NtQK ýİ\ Yj FKİİKİ

WKÓDr PmQ Yİj h tham kho hình vben %İÃW l

WtFK FëD WRjQ EÝ NKÖEPýWKëKWİFmQ
EıQJ

$$\begin{aligned} \$ \quad FP \quad \% \quad FP \\ & \& \quad FP \quad ' \quad FP \end{aligned}$$



&kX &KR P»W FyXGLëQ WİFİKEıQJİFKSNİëİQJF«X

$$\begin{aligned} \$ \quad \mathcal{S} \quad \% \quad \underline{\mathcal{S}} \quad & \& \quad \mathcal{S} \quad ' \quad \underline{\mathcal{S}} \end{aligned}$$

&kX ;pW FiF VÕxW WKÓGÖİİQJ $\frac{x}{\sqrt{x}} \frac{y}{y} \frac{xy}{xy}$ x x y y xy 7uP JLi

WUİ OİQİKİVİLİP $\frac{x}{x} \frac{y}{y}$ WKİF

$$\begin{aligned} \$ P_{PD[} \quad \% P_{PD[} \quad & \& P_{PD[} \quad ' P_{PD[} \end{aligned}$$

&kX 7URQJ NK{QJ JLDQxyİEKEİmİİQJyWK·QJ 9HFWk QjR VDX

Oj YHFWk FKÍ SKmkQd"FëD ýmáQJ WK·QJ

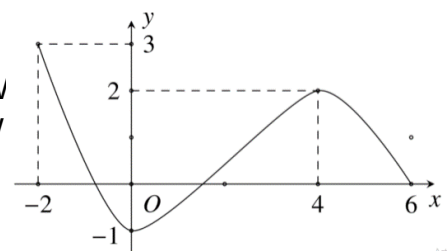
$$\begin{aligned} \$ \bar{u} \quad \% \bar{u} \quad & \& \bar{u} \quad ' \bar{u} \end{aligned}$$

&kX +jP YÖf x Fy ý¥Rf Kjp x x x x 6Ö ýLÇP FõF WUİ FëD

$$\begin{aligned} \$ \quad \% \quad & \& \end{aligned}$$

&kX &KR Kjp VÕ OİrQ WëF WİrQ ý×
QKm KuQK Yİ GmİD«QİDmçW Oj JLi W
WUİ QKÓ QK©W FëD Kjp VÕ ýmáQJ WK·QJ
EıQJ

$$\begin{aligned} \$ \quad \% \quad & \& \end{aligned}$$



&kX 7tFK FiF QJKLĖP FäD \$KmkQJ W BμQK

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&kX +Ñ QJX\ rQ K jP FëD K jP VŦ

\$ $\frac{x}{}$ x OCQ % $\frac{x}{OQ} C$ & x ∞ Q ' $\frac{x}{} \frac{x}{} C_O Q$

&kX &KR K jP VŦ Fy ESQJ ELĀQ WKLrQ QKm VDX

x	$-\infty$	-1	3	$+\infty$			
y'		$+$	0	$-$	0	$+$	
y	$-\infty$		6		-26		$+\infty$

*Li WUĭ FöF WLÇX FëD K jP VŦ ŷm FKR EμQJ

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&kX 9BÖRJ a WÖRJ EμQJ

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

&kX &KR VŦ S WKKÖD PimQ i .KL|zŷEμQJ

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&kX &KR K jP VŦ ESQJ ELĀQ WKLrQ QKm KuQK YÁ Q.K.ŷÖQKyĭQ
ŷ~QJ

x	f	f
f cx	±	±
f x	f	f

\$ x WKĭ FëDf K jP Fy VŦ~QJ WLĖP F±Q QJDQJ Yj WLĖP F±Q ŷíQJ

% x WKĭ FëDf K jP NKŦQJ Fy WLĖP F±Q QJDQJ Yj Fy WLĖP F±Q ŷ

& x WKĭ FëDf K jP Fy VŦ~QJ WLĖP F±Q QJDQJ Yj NK{QJ Fy WLĖP

' x WKĭ FëDf K jP Fy VŦ~QJ WLĖP F±Q QJDQJ Yj WLĖP F±Q ŷíQJ

&kX &KR KuQK O QJ WABG AMO P FyBif ŷÁŷF ACóDj P»W SBCQJ

EμQJq 7KÇ WtFK NABŦ ABOC Q EμQJé

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

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JLŦQ 7tQK SLiaWbĭcFëD

\$ S % S & S ' S

&kX &KR NKÕLABC QBCWUjéWKÇ WtFK YEWUM OñLWUXQJAYBÇÇR FèI
 KDL ÿL PPO«Q OmçW QµBCWYBC VDRBNQKCC BP –BC m áQJ WK·QJ
 NP FBCWEL ÿm áQJEMKFQW ABQW L7KÇ WtFK NKÁQPCADMGCL ÈQ QJ×d
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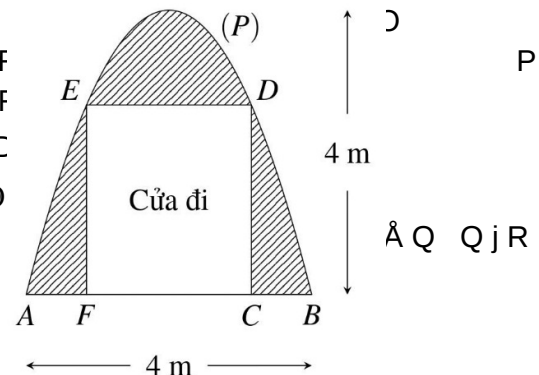
&kX &y EDR QKLrX a Õi SKÁBL·Z WK ÓD i Pzm Q|z | |z | Yj
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&kX 7URQJ NK{QJ JQDZQ FKÑRD Py»YB B«X y z – P»W SK·QJ
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 P YJS *Li WUİ OñQMCKQW FèD
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&kX ĐQJ \$ YD\ QJkQWKiQX ÿ×QJ YBLWmQJXĐQW WD PXÕQ KRjQ
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 FiFK QKDX ÿ~QJ PÝW WKiQJ VÕ WLÁQX KRjQµQJ L F E Õ L W K Á Q V ÿ Á Q J
 QJkQ KJQJ FKÍ WtQK OmL WURQ VÕE GQJ Qj FK K R j Q Á Q F ÿ D W Q U Q S B
 EDR QKLrX WKiQJ NÇ Wİ QJj\ YD\ ÿ Á Q + Y B F o n g B i e Q i a K r a y M a i Q u t Q J k Q
 không thay ÿ
 \$ WKiQJ % WKiQJ & WKiQJ ' WKiQJ

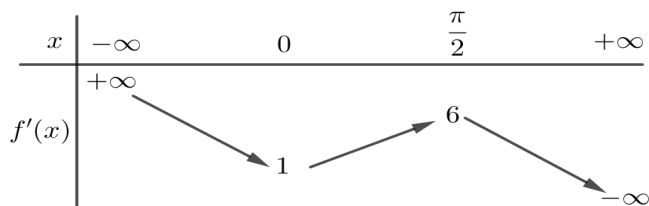
&kX &KR KuQK QyQ Fy E a Q Y N t Q K E Q i \ W E F Q J [X Q J T X Y D Q J L E y m Q a Q J V I
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&kX OÝW FKLÃF FÙQJ Fy KuQK(P)GFYQJN
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 WD WKLÃW NÃ FñD ÿL CQEFYWCKRLQAB F
 D E•P SK«Q P a Q g o n t h e o G•QJ ÿÇ WUD
 FKL SKt ÿÇ WUDQJ WUt SK«Q W F Q ± P V Õ
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&kX &y QJmáL [ÃS WKjQK PÝW KJQJ GÑF YÖjWUõ FëQK P Õ & KÕJm
 QKLrQJmáL WURQJ KJQJ 7tQKQJnFáMxowFyçKWQRMKALQJjRy ýiQJ F
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&kX &KR Kjp VŌ +jP yŌ cx Fy ESQJ ELÃQ WKLRQ QKm VDX



%©W SKmkQJ WUuQk y~QJ Y&L PNL NKL Yj FKÍ NKL

\$ m - f \frac{a}{\sqrt{1}} \leq \frac{1}{4} \quad \%m - f \frac{a}{\sqrt{1}} \leq \frac{1}{4}

& m - f d \frac{a}{\sqrt{1}} \leq \frac{1}{4} \quad ' m - f \frac{a}{\sqrt{1}} \leq \frac{1}{4}

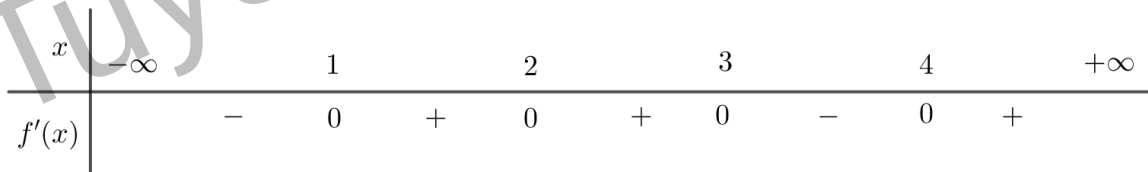
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WÑDxy Ŷoj ŷmáQJ WUzQ Fy WkP Oj

\$ I - \frac{S}{\sqrt{1}} \leq \frac{1}{4} \quad \%I - \frac{S}{\sqrt{1}} \leq \frac{1}{4} \quad &I - \frac{S}{\sqrt{1}} \leq \frac{1}{4} \quad ' I - \frac{S}{\sqrt{1}} \leq \frac{1}{4}

&kX ;pW WDP WKÍF Fx FbKDL Y&Lc•R WKÓD PmQf ŷLAX NŁEQŃL
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\$ \% & ' .

&kX &KR Kjp xVŌFy ESQJ [pW G©X FëD ŷ¥R Kjp QKm VDX



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\$ f \% f & \frac{S}{\sqrt{1}} \leq \frac{1}{4}

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& x y z ' x y z

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\$ y \frac{x}{x} O Q \%y \frac{x}{x} O Q & y \frac{x}{x} O Q ' y \frac{OQ}{x}

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