þÒûþþ®þ¸þß ' J / 'þî @ @

þòþ’ûþþ®þ þ˜þß ' J

þ”ûÿþ’ûþþ®þ

@ @ @ @

Dûþþàþ Ìþ—þß '	þ”þ‘þŽ	D '$þ³þß
F 0 % , Fþ÷ FþÛþß	þ„ 7þ	[illegible]
[illegible]	þ„ 7þ	[illegible]
F 0 % H [illegible]	þ¢ûþþ	[illegible]
[illegible]	[illegible]	[illegible]

Fþ^þÓ FþŽþÛ H þòþßþŽþ˜þßþŽþ‘ Fþ^þÓ FþŽþÛ ' 0 % H

þò ¾ (ð+ 2) (ð+ ð 2 ; þ”þß /þŽþÌþäþß ' Dþîþàþ

(I I

: A B þšþàþœþäþßþâþ”þÌþÛ þ”þÌþÛ þ”þÌþÛ ð= z F # .6 þæûÿþ‘

þŠþÓ ð+ z ð+ z ð= z

H H F 0 % H H :þŽþèûþþªþ

A þòþÓ A þ þŽþàþœþäþß 2 = 1 6 % J #

þŽ ¾þ®þÄþ× þÒþ¼þç H þŽ ¾þ°þÛþ®þã F #

F # þŠ þ²þÔþç þòþÂ

H H

: þÒþ¼þ˜þèþã þî ¾ þŽ ¾þ°þÛþ®þã J # þŽ ¾þ®þÄþ× þÒþ¼þç þŽ ¾þ°þÛþ®þ

ð-1 û«þ˜ þÛþ®þã þÛ þŽ þ”þÌ þÛ þèþß þ”þÌ

F % Eþ°þàþ˜þ´þç

A B D þòþËþŽþ‘þ®þã ' þ”þÌûÿ

H F 0 % þŽþèûþþªþ

(FþŽþ´ûþþŽþØþ˜þã H) þ

)þ°ûÿþäþäþß ' Gþ®þ»þŽþè þ°þÛ þ®þã

Jþ¬þß ' þòþÄþØþèþß ' þ”þÌ þÛ þ´ûÿþ´ûÿ þ´ûÿ þ´ûÿ þ

S_n ð= $\frac{u_0}{v_0}$ ð+ $\frac{u_1}{v_1}$ ðð+ —ð $\frac{l}{v_1}$ þšûÿþ£ 9þîþäþ

u_n ð= $\frac{1}{2}$ v_n ð þŽþèûþþªþß H

þŽþèûþþªþß

: F 0 %

J #

¤òþßþŽþ˜þßþ

P_n ð= v_0 ð´ v_1 ð´ . . ð þšûÿþ£ ! 'þªþ þß(þæþÜû

r þ”þßþ

F 0 %

þŽþèûþþªþß

þ¢þ’þ¼ûÿþß 'þªþß ' þºþ‹þŽþ¼þ§

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û«þèþã H

(þîþàþÄþäþß ' þî ¾ H

þªþ þç Cþ®þ˜þ¸þ

J #

:þªþ þçþ”þß 'þªþß

:þªþ þç þÂûÿþ´þ’

f (xð)=x ðl+n 4 ð+ $\frac{2}{e^x}$ ð+

(þÂþ0Ø)þçþÊþ‘ 'þ®þß ' þæ

: ð-ð lð+ð þªþêþÊþß 'þªþß ' þ¤þ˜ûþþŽ

þŽû-þ— 1þŽþ· % 3 1þªþç

þðþàþË þŽþãþŽþ”þß ' /þß)' /ûþ‹þçþã Fþ^þÓ DþÛ DþŸ ' Fþã þŽþçû

: þ”þß ' /þß ' * ' 1ðþÐþ— D

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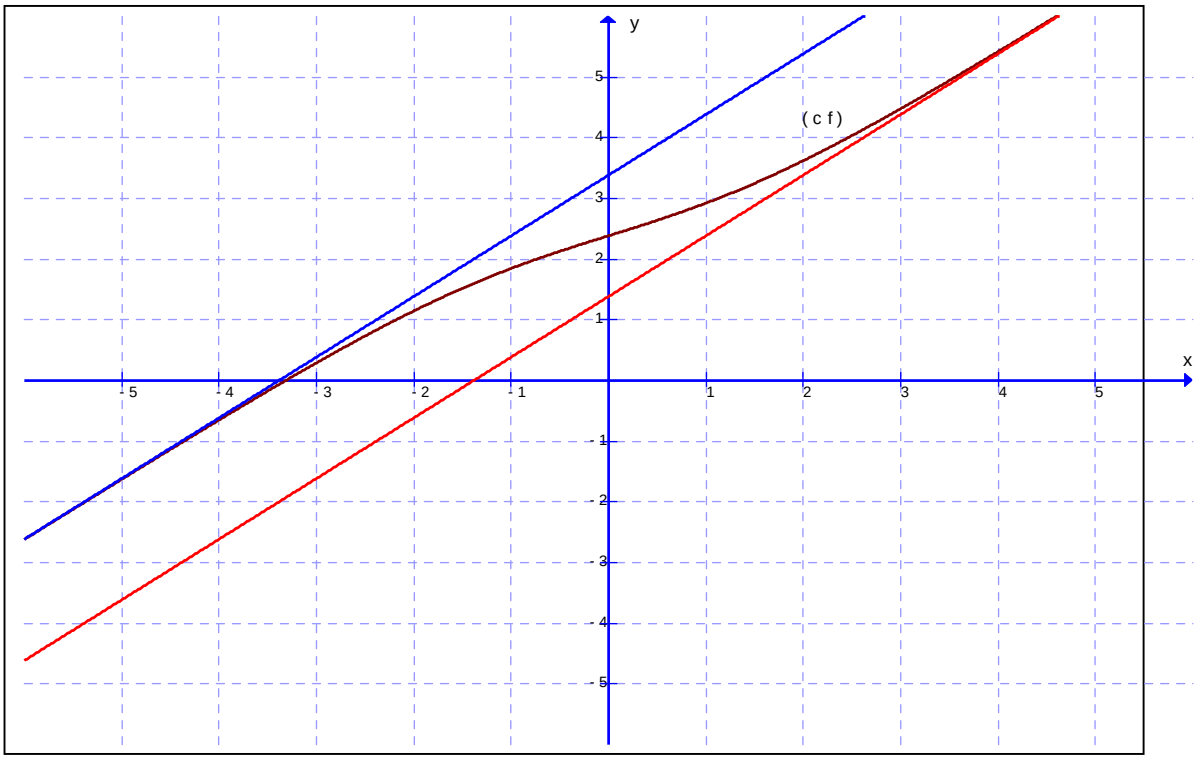

A ðl) ð= n ðæ2 ðl ðæ ðl ðe ð+ 1 :F # þ#(5)ÿÞ 'þ†þ´þß ' þ.ðÊ '

þ¢þ'þ¼þ— F # þŽþäþ' H J #

þªþ þç þ"þß 'þªþß ' þºþ‹þŽþ¼þ§ DþŽþäþÌþ˜þ³þŽþ' H

.A ðl) ð= FþîþÜðþ /þ¾ÿÞ þ¾ÿÞ×þ'þ(þäûÿþ×

:þªþ þç þ"þß 'þªþß ' þºþ‹þŽþ¼þ§ DþŽþäþÌþ˜þ³þŽþ' H þŠþÓþŽþÜþ—

F 0 % þªþ þç þÂûÿþ´þ'þ˜þß ' þªþ

(þÂþØÄþç) D Hþ÷ ' þæûþþ

Cð(0 ;ð3 ð H Bð(- 2 ; ð-ð Að(2 ;ð1 ð

xð- yð+ z ð+1 û«þ˜þß /þŽþÌþã þî˜´ þäþß

(Q @ @þß þ”ûÿþ— 1 F # |

F 0 % þŽþèûþþªþß H H : þŽþèûþþªþ

þÚþßþ¬þÛ

þªþ þç þŽû-þ—þŽûÿþ› 'þªþ F þŽþ‘ H þÌþ˜þßþŽþ‘ H Q þ”þß /þŽþÌþã þòþ

þæûþþªþãþŽþÌþ˜þã þ®ûÿþÏ H F þæûÿþ

H F 0 % H þŽþçûþ /þ

H J #

(Q H(F þæûÿûþþîþ˜ 7 ûÿþœþä

þªþ þçH þÊþäþ þßþŽþ‘ þŽþèûþþªþ

:þòþÄûÿþ³þîþß ' þÞûÿ H' F þòþÓ þ¾ûþþîþÌþ˜

þšûÿþ£

(Q H(F þæûÿûþþîþ˜´ þäþß ð\ þŽ þæûÿþ

(Q H(F @ @þß ð\ þŽ þæûÿþ

þ•ûÿþ—þ®ûÿþ H(S þæûÿþ‘ 3 þŽ þæûÿþ˜ þÄþØþçþß ' *þŽûÿþ

:F 0 % û«ûÿþ¥þîþ— 9 þŽ þæûÿþ˜´ þäþà þŽ þæûÿþ

H F 0 %

: þ¾ûþþîþÌþ˜ßþŽþ‘ H H J #

F 0 % /þŸþç þ”ßþ /þŽþÌþäþß ' -*þŽûþþ› ' /þ

F 0 % /þŸþç þ”ßþ /þŽþÌþäþß ' -*þŽûþþ› ' /þ

(ðÌ ðÌ þæûÿþ‘ þ”þÓþ [illegible] ðæ 1 ðè 2 1 2 [illegible]

F # þæþã [illegible] þû H

û«þèþã H

þòþßþŽþ˜ßþŽþ‘ H F 0 % H

(þÂþØþè) þòþçþŽþœþß ' þ

(ð+ 2) (ð+² ð+ þ”ßþ /þŽþÌþäþß ' / [illegible] ' (þ”þËþîþ

J #

H û«þèþã H þªþ [illegible] ûÿþäþäþß ' þ•þ´þ¤þç

:þ”ßþ /þŽþÌþäþß ' Dþîþàþ£

z_E ð= $\overline{z_D}$ z_D ð=2 (ð1 $\sqrt{}$ ð+3 z_C ð= ð2 z_B ð= $\overline{z_A}$ z_A ð= $\frac{ð-1 ð+ \sqrt{3}}{2}$ (I I

E D C B A þÂþØþèþß ' þâþàþË [illegible] " þÞþ

û«þèþã H F 0 % þŽþèûþþªþß

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)þ°ûÿþäþäþß ' G

þªþ þç :) 1þŽþ'þÌþß ' þæþ

û«þ˜ûþ J #

z ð=1 ð+ F # :þšûÿþ£ þ"þÄþØþèþß ' þæþ

þªþ þç þÂûÿþ´þ'þ˜þß ' þªþÌþ' H F 0 %

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J # F % Eþ°þàþ˜

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:G þ"þØ

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J # :þŽþèûþþªþß

þ•ûÿþ— 'þ®þ˜þß '

@þ' þ"

u_n ð> $\frac{1}{e}$ n E Hþªþ

þ"þ£ûþþ£þ» þ"ûþþ¿þØþß ' : DþŸ ' Fþã

þ"ûþþ¿þØþß ' u_n ð> $\frac{1}{e}$ F

: /þŸþç FûþþÓ 1 7þß ' þðþàþË þòþÌûþ

/ /þË DþÛ DþŸ ' Fþã FJ0#% /þŸþç / /þÌþß ' þòþÓ FûþþÓ 1 7þß '

u_n ð> $\frac{1}{e}$: Fþ^þÓ

$\frac{u_{n+1}}{u_n}$ ð< n E Hþªþìþãþìþ©þÛÿÞÏ /þªþËûþÞþÛ#.5 þæûÿÞ#

:F # þòþèþÌþ— F 0 % þŽþèûþÞªþß

:þòþßþŽþ˜þßþŽþ‘ H $\frac{1}{e}$ F % þŽþäþ‘ H þªþ þç þæûÿþÓþ®þÄþß ' þÊûÿþ‘þ

þŽþãþŽþäþ‘ þ¼½þ×þŽþ³˜þã

þ”þ¼½þ×þŽþ”ûÿþãßþŽþ˜þ˜þäþß ' û«þèþã F # þŽþäþ‘

þŽû-þ˜ûþŽû-þç þò ¾ þŽþäþÓ þ”þ¼½þØþ˜þã

þšûÿþ6þò ¾ þŽþ˜þ˜ûþŽû-þç þÞ/þªþßþŽþ‘ þÞþÛþŽ³þãþŽþäþ¼½ þ”þ¼½

þòþßþŽþ˜þßþŽþ0H% :þŠþÓþŽþÜþ—û«þèþã H

v_n ð= $\frac{1}{2}$ ð+ $\sqrt{u_n}$: @ n @ þ“Hþªþìþãþìþ©þÛÿÞÏ /þªþËþ”þÓ þ”þ¼½ þ”þ¼½ þŽþèþã

D Hþ÷ ' þŽ ¾þªþ£ H þŽû-þ³þŽþ³ #) v_n þæûÿþÓþ®þÄþß ' þ¼½ þÄûþ

F 0 v_n ð= $\frac{1}{2}$ ð+ $\sqrt{u_n}$ þŽþèûþ

þªþ þç Cþ®þ˜þ¸þã¬H8þ„þŽþË J #

J #

D Hþû ' þŽ ¾þªþ£ þŽû-þ³þŽþ³ #è(¾ $_n$ þ”þ¼½ þŽ

n þ”þßþûþŽþ˜þèþ˜þ³ $_n$ þ”þ¼½ þŽ

û«þèþã H F 0 % J % þŽþèûþÞªþß H

þòþßþŽþ˜þßþŽþ‘ H# Eþ°þàþ

S_n ð= $\frac{1}{1ð+ln\,u_1}$ ð+ $\frac{1}{2ð+ln\,u_2}$ ð+ ... ð+ $\frac{1}{nð+ln\,u_n}$ þšûÿþ6 9þîþäþ¼½ þ”þ¼½ þûþªþ‘:5 þ•þ´þ

þòþßþŽþ˜þßþŽþ‘ H J # þŽþèûþÞªþß

F 0 %

þªþ þç þ¾ûþÞîþÌþ— H

J:#

û«þèþã H

F 0 %

þòþßþŽþ˜þß

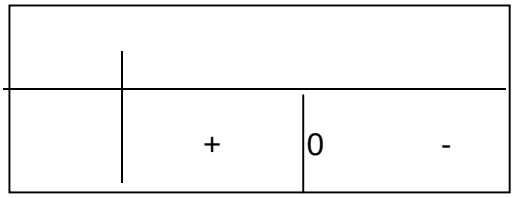
(þÂþØÞç)þÊþ‘ 'þ®þß ' þæû

f (xð)=ln (xð- 1) ð :þòþàûð-1Žþ¤ÛDþŽþ äþ®þÌþãþàþÊþ

2 x
xð+1

þŽû-þÔûþþ®þÌþ— þ”þÊþ¤þàþãß 'Aþ¤ þ¤ þŽû

f ' (xð)= 1ð- x
ð(xð+1) Fþð-1 ð+1 þæþãþòþØûÿþØþ£ /þªþË þ#þÛ þÞþÙ



þŽû-þ— 'þ®ûÿþÐ'þ¤ þ¤ þÝ þØûÿþÐþ— Gþ

F 0 % J '

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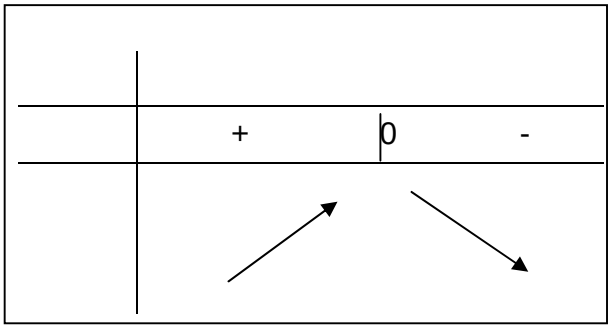


0 þ”þàþ»þŽþÔþß ' (Ç' 0 þ”þÊþ¤þàþãß /þŽþ

F 0 %

þŽû-ûÿûÿþ› 'þªþ£ ' þæûÿûÿþÌþ(–Ç

F % þòþèþÌþ—û«þèþã H F 0 % þŽþèûþþª

AþŽþÄþÌþç ' þ”þÄþØþçþÄþØþçþßFþÞþÓ'þØûþ þÞþÛ þÞþŸ ' þæþã

3 , ð< ða ð þšûÿþ£'þªûÿþ£ H

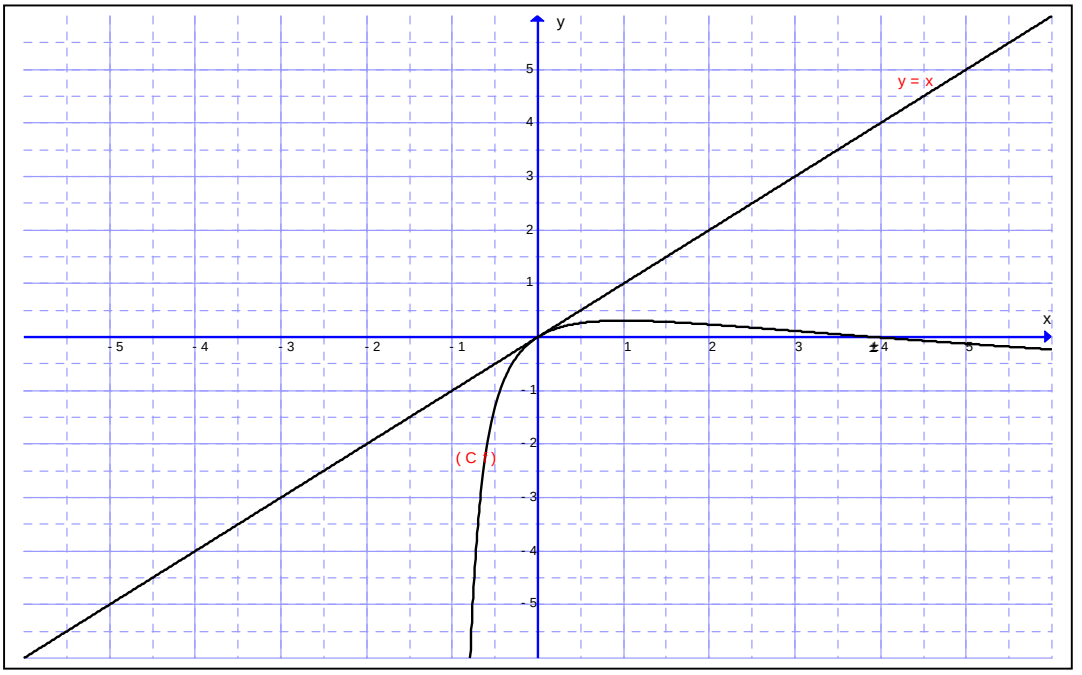
þðþàþË þŽþãþŽþäþ—)þªûþ 'þ°þ˜þã H

DþŽþ þäþß '

J # þŽþèûþþªþß H

þšûÿþ£ 'þªûÿþ£ H þüþ£ FþˆþÓ þ”þÄþ³þîþ˜þäþß '

(Ç þðþèþ¤ þäþß '



f (xð)=x ð-3 ı þ”þß /þŽþÌþäþß '

	þæûÿþàþ£ þÞ|) 1þŽþ·þù ' þòþ(þÞþ£ þÞþ’þØþ- E HþªþÌþã þÒþ þÞþ£ þÞþ’þØþ—

F (xð) = (ð3 - ðx) l n (xð+ 1) :ðð]-1 ;ð+ð þðþàþË þ”þÉþ®þÌþã þ”

ðð-1 ;ð+ð DþŽþ þáþß”þ¹þ¾ðþ¾ðþÉþ F ûÿþæûÿþ“ þ”þß

@þß þ”ûÿþà0»% þ”þß

A ðà @ @þß 'þ®þ¼ðþ¼ðþ¼ðþ