U'k Ungi]b' i l'i]g'YggYbh]U' Zcf'h\Y'gi WWgg'UbX`cb[Yj]hmcZ
nti f'cf[Ub]nUh]cb"K \]W\a YUbg'nti 'UbX'nti f'Ya d'cmYYg'a i ghi
Ya VfUW' W\Ub[Y"±b'ZUMbzYUX]b[ 'W\Ub[Y'k ci `X'VY'h\Y'cdh]a U' UddfcUW"=b'fYU]hnziW\Ub[Y']g'i gi U'` : cWg'cb'g\_]``'Vi ]'X]b[&"

gca Yh\]b[ 'VYHhYf']g'cb'h\Y'ch\Yf'g]XY!']g'k \Uhk Y'bYYX'hc' fYd`]WHY']b'ci f'Vi g]bYggYg'

=fYWbhimgdc\_Yik]h\'U'gaU``Vig]bYgg'ckbYf'k\c'WkU``Yb[YX'\Yf'Yad`cmYYg']b'&\$&&'hc'difgiY'U'dUgg]cb'dfc'YWffY'UhYX'hc'h\Y'Vig]bYgg'G\Y'[UjY'h\Ya'h]aY'hc'kcf\_'cb'h\Y]f'dUgg]cb'

Dfca chy UbX gi ddcfh Yl dYf]a YbhUh]cb

" 8Yg][bUhY`W\Ub[Y``YUXYfg`cf`W\Uad]cbg

## F c / S B d/

G\_]``Vi]`X]b[`UbX`Wabh]bi ci g``YUfb]b[`UfY`U`Zcfa`cZW\Ub[Y"FYa Ya VYf`k \Yb`nai `cf`nai f`hYYbU[Yf`k YfY`dfYdUf]b[`hc`[Yh'U`Xf]j`Yfg``]WbgY3`H\Uh'W\Ub[Y`fYei]fYg`U`chcZYXi Wlh]cbžU`chcZdfUM]W\ZUbX`U`chcZbYk `fYgdcbg]V]`]m\5bX`nYhihYYbU[Yfg`Yj Yfmk \YfY`Ya VfUW'h\]g`W\Ub[Y`]b`h\Y]f``]j Yg'H\]g`\_]bX`cZYl V]hYa Ybh'UbX`XYX]Wlh]cb`hc``YUfb]b[`bYk`g\_]``g` VYWi gY`

]b]h]uh]j Ygh\uhufY`ci hg]XY`cZh\Y`hfuX]h]cbu``k UmcZXc]b[`h\]b[g"K]h\ci hei Ygh]cbg`k Y`Wb hgYY`dcgg]V]`]h]Yg`UbX` k]h\ci hYl dYf]a YbhUh]cb`k Y`Wb hYj c`j Y`UbX`[fck''

Mti \Uj Yi bXci VhYX`m\YUfX`UVci h; cc[`Yg`&\$ı fi `Y']b`k \]W\
Yj YfncbY']g'[]j Yb`&\$ı cZh\Y]f`k cf\_k YY\_hc Yl dYf]a Ybhk ]h\
]XYUg'h\Uha ][\hVYbY hh\Y`cf[Ub]nUh]cb"H\]g']g'U'dc`]Whh\Uh
dfca chYg'Yl dYf]a YbhUh]cb'' \( \bar{\text{b}}\) fYU`]m\( \alpha\) a cghcf[Ub]nUh]cbg'
h\k UfhYl dYf]a YbhUh]cb \( \text{VYWi gY'}]hhU\_Yg'h]a Y`Uk Um\( \alpha\)ca
dfYgg]b[ \( \text{XUmfYgdcbg}\)V]`]h\( \text{Yg'}\)

GʻUWzth.Y`` &\* 'V]``]cb`Wa dUbnzik Ugʻcf][]bU`mghUfhYX'UgʻUb`
]bhYfbU`Wa a i b]WUhjcb'hcc`k]h\]b`U'Wa dUbmh\Uhik Ugʻ
WYUhjb['Ub'cb`]bY'[Ua Y''K \Yb'h\Y'[Ua Y'ZU]`YX'hc` bX'
gi WWggzh\Y'Zci bXYfg'k cbXYfYX'k \Uhih\YmWdi `X'Xc'k]h\ h\Y'
Wa a i b]WUhjcb'hcc`h\YmWfYUhYX'Zcf'h\Ya gY`j Yg'H\]gj]g'U'
a ]bXgYhh\UhYI Ya d`] Ygʻh\Uh`cgg']g'bchZU]`i fYzjhg'\f gh'U'ghYd`
]b h\Y'dfcWgg'

I bZcfhi bUhY`nžia cghcf[ Ub]nUh]cbg'di b]g\ ]bX]j ]Xi U`]b]h]Uh]j Y`cf'VfYUh]j ]hmk \Yb']hXcYgb hdUb ci hUg'cf][ ]bU`md`UbbYX" K Y'W`YVfUhY'YbhYdfYbYi fg'k \c'Vf]b[ 'hc'a Uf\_Yhh\]b[ g`]\_Y'7Ufj UbU'UbX`FcV]b\ccXžVi hik Y'Xcb hcZhYb`\YUf'h\Y'VU\\\_'ghcfm cZh\Y'ZJ]`i fYg'h\YmYl dYf]YbWYX`VYZcfY'h\YmZci bX'gi WWgg''

9| dYf]a YbhUh]cb WfYUhYg Yl dUbg]j Y h\]b\_Yfg/k \Yb h\Ym\]h U fcUXV cW\_ž]bghYUX cZ[c]b[ VUW\_hc h\Y c X k Umcf []j ]b[ i džYl dUbg]j Y h\]b\_Yfg h\]b\_žK Y``k \Uhg dcgg]V Y bck 3K \Uh

De	'/a e C a/	e Leade	C a	•X

 $\label{eq:continuous_problem} \begin{picture}(100,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,$ 

## Ab e A

8f"BUbYHY'A]bYf]g'U`YUXYfg\]d`XYj Y`cda Ybh'UbX`k cf\_d`UW!`YUfb]b[`gfUhY[mWtbg``HUbH'H\fci [\`\Yf` fa žH\Y'HfU]b]b[`8cWtcfžg\Y`\Ug` fYj c`i h]cb]nYX'h\Y`k Umh\Uh]bX]j ]Xi U`g'UfY dfYdUfYX'Zcf``YUXYfg\]d`fc`Yg`]b` h\Y]f`cf[ Ub]nUh]cbg'F Uh\Yf`h\Ub'U`W\cgYb`ZYk ž\Yf`dfcWgg`]g'U]a YX`Uh'Ybgi f]b[`Yj YfncbY`]b`h\Y`Wta dUbm\Ug'h\Y`g\_]``g'UbX`Vi g]bYgg'UW'a Yb`cZ'U``YUXYf'H\]g` UddfcUW.Ybgi fYg'Vch\`]a a YX]UHY`UbX``cb[!hYfa fYhi fb!cb!]bj Ygha Ybh'fFC±' Zcf'Ub`cf[ Ub]nUh]cb"

 $\label{eq:continuous} $$GY' \ Ug'k f] $$HYb' Ufh]WYg'Zcf' 7\]YZ' @YUfb]b[ CZ W'a U[Uh]bYz': cfVYgz'UbX' $$$ 

Α