

POLS5120

; `cVU``Dc`]hJ\\g.`H\Y`; `cVU`]gUhJcb`cZK cf`X`Dc`]hJ\\g

HYfa 'C bY''##'&\$&%

7 ci fgY Cj Yfj]Yk

GHJZZ:7cbHJWh:8YHJ]`g

7cbj Ybcfg

B Ua Y	9a U]`	5j U]`UV]`]m	@cWJhjcb	D\cbY
8YVcfU\`6Uffcg @YU``: Uf]Ug	XYVcfU\V`Z4 i bgk "YXi "Ui	_	F cca '%) A cfj Yb 6fck b 6i]`X]b[

GWXcc`7cbHJWhi±bZcfa Uhjcb

GWXcc``cZGcWJU``GWJYbWYg

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A cfj Yb 6fck b 7 &\$

Ya U]`. 'gcgg4 i bgk "YXi "Ui

d\cbY. '\$&'-',) '% \$+

7ci fgY 8YW] g

7 fYX]hDc]bhg * *

Gi a a UfmcZh\Y 7ci fgY

9 | Ua]bYg'X]ZZYfYbh'UbX'Wa dYhJb['dYfgdYW]j Yg'cb']bhYfbUhJcbU`fY`UhJcbg/UbU`mgYg'h\Y'_Ymghfi Wi fYg UbX'dfcW'ggYg'cZ[`cVU`'dc`]hJWg'UbX'YI d`cfYg'gY`YWhYX'W ffYbh']ggi Yg"'H\Y'Wci fgY'dfcj]XYg'Ub YI Ua]bUhJcb'cZh\YcfYhJWJ`hfUX]hJcbg']b' +bhYfbUhJcbU`FY`UhJcbgž'UbX'U'gi fj YmcZh\Y'\]ghcfJWJ``Yj c`i hJcb'cZh\Y'[`cVU``gmghYa "'+iU`gc YI Ua]bYg'h\Y'fc`Y'cZh\Y'bUhJcb!ghUhYž'h\Y'bUhi fY'cZWcbZ]Wh]b'WcbhYa dcfUfm k cfX'dc`]hJWgž'[`cVU``[cj YfbUbWYž'h\Y'[`cVU``YWcbca mž'h\Y']a dcfhUbWY'cZ]XYbhJhm]b'k cfX'dc`]hJWgž\i a Ub f][\hgž'UbX'[`cVU`]nUhJcb"

7 ci fgY @YUfb]b[Ci hWca Yg

% Gi a a Uf]gY`UbX`YI d`U]b`h\Y`a U]b`h\YcfYh]WU``UddfcUV\Yg`]b`±bhYfbUh]cbU``F Y`Uh]cbg &" 5bU`mgY`h\Y`fc`Yg`cZa U'cf`UWcfg']b`[`cVU``dc`]h]Wg ' " 7 f]h]WU``miYj U`i UhY`h\Y`_Ymighfi Wh fYg`UbX`dfcWYggYg`cZh\Y`[`cVU``gmghYa (" 9j U`i UhY`h\Y`]a dUWhcZ[`cVU`]gUh]cb`cb`k cf`X`dc`]h]Wg

HYUWX]b[GhfUhY[]Yg

FUNcbUY.

H\]g^]g^U^Wca di `gcfmWci fgY`]b^h\Y`A 5 f\bhYfbUh\cbU``F Y`Uh\cbg\center XY[fYY'dfc[fUa 'UhI BGK "'5g'U [fUXi UhY ``Yj Y``Wci fgY`]h]g^a Uf_YX`VmfU]g]b['WVftU]b^]ggi Yg^Uhh\Y`ci hgYhgi W\`Ug`UddfcUW\Ygž dYfgdYWhJ Ygžgci f\Wg`UbX`UbU`mg]g^k \]W\ a Um'Uf]gY`Uhh\Y`i bXYf[fUXi UhY ``Yj Y``Vi hbchYI d`]\MhmUbX`]b gi W\ XYdh\"'=\XcYg`gc'h\fci [\'Ub']bhfcXi Wh]cb'hc'k Umg`cZh\]b_]b['UVci h=bhYfbUh]cbU``F Y`Uh]cbgž'UbU`mg]g cZ_Ymghfi Wh fYg`UbX`dfcWYggYg`cZ[`cVU``dc`]h]Wg`UbX`YI Ua]bUh]cb'cZgY`YWhYX`W ffYbh]ggi Yg"

#D'UWWEFXUbWY' k]h. 'I BGK '@YUfb]b['UbX'HYUW\]b['[i]XY']bYgž'Ug'U'WEi fgY'XYg][bYX'Uhh\Y'A 5'Yj Y'`h\]g WEi fgY']g']bhYbXYX'Vch\ 'hc'gi dd'Ya YbhYI]gh]b['_bck 'YX[Y'UbX'YI dYf]YbW'UbX'U'gc'hc'XYj Y`cd'YI dYff]gY]b'h\Y'UbU'mg]g'cZ['`cVU''dc']h]Wg"'H\Y'WEi fgY']g'VUgYX'cb'h\Y'Uggi a dh]cb'h\Uhmci '\Uj Y'Ub'UWf]j Y'fc'Y'hc d'Um]b'h\Y''YUfb]b['dfcW'gg'UbX'UfY'UWf]j Y'dUff]WdUbhg']b'h\Y'dfcXi Wf]cb'cZ_bck 'YX[Yžk\Yh\Yf'mci \Uj Y'df]cf'_bck 'YX[Y'cf'YI dYf]YbW'cZh\YgY']ggi Yg'cf'bch'H\i g'h\Y'Wei fgY'UWf]j Y'miYb[U[Yg'ghi XYbh]bj c'j Ya Ybhh\fci [\']bXYdYbXYbhfYUX]b['žWUgg'dUff]WdUh]cb'UbX'h\Y'dfYdUfUh]cb'UbX'dfYgYbhUh]cb'cZ k f]hhYb'k cf_"'H\Y'h\fYY'UggYgga Ybha cXYgž'Ub'9ggUmD`Ubž'Ub'5bbchUhYX'6]V`]c[fUd\mž'UbX'U'F YgYUfW\9ggUmž'UfY'XYg][bYX'hc'YbUV'Y'mci 'hc'fYZYWhcb'mci f'i bXYfghUbX]b['cZh\Y'gi V'YWha UhhYf'UbX'hc WebhYl hi U']gY'h\Y'Wei fgY'WebhYbh]b'fY'Uh]cb'hc'h\Y'cj YfU``XY[fYY'dfc[fUa "'H\Y'gYa]bUf'X]gW gg]cbg'k]`dfcj]XY'U'ghfi Whi fYX'Ybj]fcba Ybh]b'k \]W\'mci 'Wbb'Yl d'cfY'mci f'cd]b]cbgz'W\U``Yb[Y'W ffYbhVY']YZg'UbXXYj Y'cd'bYk 'WebW'dh'U''hcc'g'UbX'i bXYfghUbX]b[g"

H\Y`ghi XmcZ[`cVU``dc`]hJWg`]g`X]fYWhm`]b_YX`rc`XYj Y`cda Ybhg`]b`h\Y`k cf`X`cZX]d`ca UWhiUbX`ZcfY][b UZZU]fg"`H\]g`Wci fgY`gYY_g`rc`XYj Y`cd`mci f`Wf]hJWD``UbU`mg]g`UbX`Wca a i b]WUhJcb`g_]``g`UbX`dfcj]XY ghi Whi fYX``YUfb]b[`UVci hi[`cVU``dc`]hJWg`gc`h\Uhimci `a UmUdd`mh\Y`_bck `YX[Y`[U]bYX`X]fYWhimhc`dfYgYbh UbX`Z hi fY`WUfYYfg`]b`Vi g]bYggž`h\Y`di V`]WgYWcf`UbX`h\Y`bcb![cj Yfba YbhgYWcf"`H\Y`Wci fgY`]g`XYg][bYX hc`Wcbhf]Vi hY`hc`Ub`]bWi g]j Y`W ff]W``i a `]b`h\Y`ghi XmcZ\bhYfbUhJcbU``FY`UhJcbg"

HYUWX]b['GhfUhY[]Yg.

 $H\[g'WcifgY']g'XYg][bYX'Ug'U'gYa]bUf']b'cfXYf'hc'aYYhh\Y'`YUfb]b['cihWcaYg']XYbh]Z]YX'UVcjY'''5'gYa]bUf'$

H\Y`gYa]bUfg`k]```dfcj]XY`mci``k]h\`h\Y`cddcfhib]mihc`Yb[U[Y`]b`ghfi WhifYX`X]gWigg]cb`cZh\Y`jUf]cig kYY_`mhcd]Wg'''H\Y`U]a`cZh\Y`gYa]bUf`X]gWigg]cb`]g`hc`YbUV`Y`mci`hc`XYjY`cd`mcifi bXYfgHbX]b[czh\YfYUX]b[g`UbX`hc`Yl W\Ub[Y`]XYUg`k]h\`ch\Yfg'''5b`Yad\Ug]g`k]```VY`d`UWX`cb`ghi XYbh`YX``YUfb]b[`UbXX]gWigg]cbž'UbX`]h`]g`YldYWhYX`h\Uh'U``ghi XYbhg`k]```UWfj Y`mWcbhf]Vi hY`hc`[fcid'UbX`WUgg`X]gWigg]cbg'' Mci`k]```U`gc`VY`YldYWhYX`hc`Yb[U[Y`]b`]bXYdYbXYbhghi Xmžig]b[`h\Y`fYUX]b[``]ghg`dfcj]XYXž'UbX`\Uj`YdfYdUfYX`df]cf`hc`YUW\gYa]bUf`VmWcad`Yh]b[`h\Y`fYei]fYX`fYUX]b[g`UbX`Ug`aUbmcZh\Y`fYwcaaYbXYXfYUX]b[g`Ug`dcgg]V`Y''

 $H\ g'h\ Y'gYa\]bUf'Zcfa\ Uhk\]```dfcj\]XY'U'XYHU]'YX']blfcXi\ Wf]cb'hc'_Ym']XYUg'UbX']ggi\ Ygž'ZU\Y]hUhY'\Wf]h]y\U`\ h\]b_]b[''UbX'XYj\ Y`cd'UbU'mf]\W''g_]``g'''H\Y']ggi\ Yg'k\ Y'k\]``'VY'X]g\W gg]b[''UfY'\WcbhYghYXž'UbX']h]g'\cdYX'h\Uh\mci'k\]``'i\ gY'h\Y'cddcfh\ b]\mdfcj\]XYX']b'\h\Y'gYa\]bUfg'hc'XYVUhY'mci\ f']XYUg''$

5ggYgga Ybh

5```UggYgga Ybhg'a i ghVY'gi Va]hhXX'Y`YWfcb]WJ``mcb`mžh\fci [\'h\Y'fY`Yj UbhUggYgga YbhHi fb\h\dcfhJ`]b'A ccX`Y"'H\YfY']g'bc'\UfX'Wcdmgi Va]gg]cb'fYei]fYX"'D`YUgY'Ybgi fY'h\Uhmci f'bUa Y'UbX'ghi XYbh\-8 bi a VYf'UfY'cb'Yj YfmdU[Y'cZmci f'gi Va]gg]cb'''Nci 'UfY'bchfYei]fYX'hc'UhtUW\'U'Wcj Yf'g\YYhhc YYWfcb]WJ``mgi Va]hhYX'UggYgga Ybhg'''K\Yb'mci 'gi Va]hUb'UggYgga YbhUhI BGK žmci 'UfY UW_bck `YX[]b['h\Uhmci '\Uj Y'i bXYfghccX'UbX'UV]XYX'Vmh\Y'I b]j Yfg]hmfYei]fYa Ybhg']b'h\Y'dfYdUfUh]cb'cZh\UhUggYgga Ybh]hYa ž']b'fYgdYWicZghi XYbhUWUXYa]Wa]gWcbXi Wici h]bYX']b'h\Y'E fgVW f 5aVWBa'{UkUbX'E fgVW f? [eUa` VgUf BcbUWgcWežVch\'cZk\]W\'UfY'Uj U]`UV'Y'Uh'\hdg.#ghi XYbh'i bgk "YXi "Ui #\cbXi Wh

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#D'UXX]h]cbžmci 'gi Va]hh\Y'UggYgga Ybh]b'h\Y'_bck `YX[Y'h\Uh

- %" h\Y`Wci fgY`Wcbj Ybcf`a Umdfcj]XY`U`WcdmcZh\Y`Ugg][ba Ybhhc`Ubch\Yf`ghJZZcf`h\Y`di fdcgYg`cZ UggYgga Ybhcf`Yj U`i Uh]cb/UbX
- &" U'WcdmcZh\]g'UggYgga Ybh]hYa 'k]``VY'fYhU]bYX']b'h\Y'Hi fb\hb'XUhUVUgY'UbX'a Um'VY'i gYX']b Yj U'i Uh]cbg'cZcf][]bU`]m"

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Hc WX YW_mci `\ Uj Y gi Va]hhYX mci f Ugg][ba Ybhgi WWYggZ ``mmci 'g\ci `X 'W]W_ J]Yk 'X][]hU` fYWY]dh Uhh\Y Vchca ``YZh\UbX WcfbYf cZh\Y A mGi Va]gg]cbg 'gWYYb" Mci 'g\ci `X 'df]bhcf gUj Y

Sf	\hdg.#ghiXYbhi	i bgk "YX	i "Ui ∦ck	<u>!i gY!h fb]h</u>	<u>]b!k]h\]b!a</u>	<u>ccX`Y</u> žBM	SeWSUUWee	fZ[e bSYWfa	₩\$đ	Zai	fa
dMf	d(WhWYdSVWeS`	V Ua	₩ fe a`	<pre>kagdSee[Y`</pre>	_ W fž						

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: 998657? 85H9

9ggUmiD`Ub.'%('A UfVX

 $5\,bbc\,lUllY\,X^.6\,]V^.]c\,[\,fUd\,l\,m^.\%\%.5\,df]^.$

F YgYUfWX DUdYf. %%A Um

gca Yh\]b['kag'Z]bX']bhYfYgh]b["'-₹mci 'UfY'hfi `m`cghž'hU`_'hc'a Y'5G5D"

- : YYXVUW_. "Ghi XYbhgik]```fYWY]j Yik f]hhYbiZYYXVUW_UbXiUibi a Yf]WU``[fUXYik]h\]bicbYik YY_icZ Waa diYh]cb"

A U_Y'gi fY'mci 'dfcj]XY.

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: cfih]gidUfhcZh\YiUgg][ba Ybhžmci ig\ci `XifYgYUfW\'UbX']XYbh]Zm5Hi@95GHiZci fiUWUXYa]WidYYffYj]Yk YXi^ci fbU`iUfh]WYgih\Uhk]```]bZcfa imci fiUf[i a Ybhgi]bimci fifYgYUfW\'dUdYfiUbX'WfYUhYiU V]V`]c[fUd\mcZh\cgY'gci fWyg''H\YgY'gci fWyg'g\ci `XibchVY'XfUk biZca ih\Yi'F Yei]fYXifYUX]b['``]gh]bh\YiWci fgY'ci h]bY'': cfiZ fh\Yfi]bZcfa Uh]cbicbik\UhWcbgh]hihYgiU'dYYf!fYj]Yk YXi^ci fbU`'Ufh]WYžgYY\hd.##gi VYW[i]XYg''`]VfUfm'i bgk "YXi "Ui #Wd\d3[1%\$\$&%-/d1*(-&+'

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; i]XUbWY`cb`k f]h]b[`Ub`UbbchUhYX`V]V`]c[fUd\mWUb`VY`Zci bX`cb`h\Y`I BGK `@YUfb]b[`7 YbhfY`k YVg]hY`Uh`\hd.#k k k "`Wi bqk "YXi "Ui #cb`]V#UbbchUhYXSV]V"\ha`

k]``VY`UjU]`UV`Y`hc`ghiXYbhg`Uhih\Y`ghUfhicZh\Y`WcifgY`gc`h\Uhih\YmiWUb`kcf_'hckUfXg`gdYW]ZJYX`ghUbXUfXg"

5XX]h]cbU`XYhU]`g.

 $""FYgYUfWX"dUdYf"") \$i ""8\rlap/z) \$\$"K cfXg"" \$\&"A Um$

F YgYUfW.'dUdYfg'g\ci `X'XYa cbglfUlY'h\Uhmci '\Uj Y'Yb[U[YX'k]h\'h\Y'h\Ya Yg'UbX']ggi Yg'fU]gYX']b'h\Y Wti fgY'UbX'h\Uhmci 'UfY'UV'Y'hc'Wtbglfi Wh'U'dYfgi Ug]j Y'UbX'k Y``!Yj]XYbWYX'Uf[i a Ybh']b'fY`Ul]cb'hc'cbY'cf a cfY'cZh\YgY'h\Ya Yg'cf']ggi Yg"

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Mci 'k]```VY`UggYggYX`cb`mci f`UV]`]mihc`XYa cbglfUhY`fYgYUfW.`g_]``g`fh\Y`UV]`]lmihc`dfcj]XY`UWW fUhY`UbX XYhJ]`YX`]bZcfa Uh]cb`UVci himci f`W\cgYb`WJgY`gh XmŁž'cb`gmbh\Yg]g`UbX`dYfgi Ug]j Y`Uf[i a Ybhf]b`Vf]b[]b[hc[Yh\Yf]XYUg`UbX`XUhU`Zfca 'gYj YfU``gci fWYgŁž'cb'ei U`]hmcZdfYgYbhJh]cb`f]bWi X]b[`UWW fUhY fYZYfYbW]b[Ł'UbX`cb'h\Y`WUf]hmcZmci f`k f]h]b['"`Nci 'k]```\Uj Y`hc'a U_Y`fYZYfYbWY`hc'Z fh\Yf'fYUX]b[g" F YZYfYbWYg'hc'h\Y`WcfY`hYl hg'U`cbY`k]``bchVY`gi Z]M]Ybhhc'dUgg'h\]g`UggYgga Ybh''

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Hc'k f]hY'U'[ccX'fYqYUfW\'dUdYf.

- 9I d`U]b`]b`h\Y`]bffcXi Wfjcb`h\Y`WcbhYI hcZh\Y`ei Yghjcbžmci f`VUg]WUf[i a YbhUbX`\ck 'h\Y`dUdYf k]```dfcWYX`ghYd`VmghYd`fh\Y`ghfi Wi fYŁ"
- G][bdcghh\Y 'ghfi Whi fY 'h\fci [\ci hh\Y 'dUdYfž]bX]\Wh]b['h\Y '`c[]\W\`dfc[fYgg]cb'\Zfca 'dUfU[fUd\'hc dUfU[fUd\'DbX'gYWh]cb'hc'gYWh]cb'fgc'`]b_]b['gYbhYb\Wg'Uhh\Y'YbXg'cZdUfU[fUd\g'UbX'gYWh]cbg UfY']a dcfhUbht"
- Dfcj]XY dYfgi Ug]j Y UbU`mg]g cZYj]XYbWY]b gi ddcfhcZmci f Uf[i a YbH'
- •

fYdcfhg"

5 h Yb X Ub WY F Yei] f Ya Yb hg

5 hhy b X Ub W 'f Yei] f Ya Y b hg

 $\label{eq:hammadef} H\Y`GW\&cc``cZGcWJU``GWJYbWYg`[i]XY`]bYg`cb`UHYbXUbWY`UfY`Uj~U]`UV`Y`Uh`$$ $$ \Hdg.##gcWJU`gWJYbWYg"Ufng"i~bgk~"YXi~"Ui~#ghi~XYbhg#fYgci~fWYg#dc`]WJYg![i]XY`]bYg#FYgci~fWYg#Ufng"i~bgk~"YXi~"Ui~#ghi~XYbhg#fYgci~fWYg#dc`]WJYg![i]XY`]bYg#FYgci~fWYg#Ufng"i~bgk~"YXi~"Ui~#ghi~XYbhg#fYgci~fWYg#Ufng"i~bgk~"YXi~"Ui~#ghi~XYbhg#fYgci~fWYg#Ufng"i~bgk~"YXi~"Ui~#ghi~XYbhg#fYgci~fWYg#Ufng"i~bgk~"YXi~"Ui~#ghi~XYbhg#fYgci~fWYg#Ufng"i~bgk~"YXi~"Ui~#ghi~XYbhg#fYgci~fWYg#Ufng"i~bgk~"YXi~"Ui~#ghi~XYbhg#fYgci~fWYg#Ufng"i~bgk~"YXi~"Ui~#ghi~XYbhg#fYgci~fWYg#Ufng"i~bgk~"YXi~"Ui~#ghi~XYbhg#fYgci~fWYg#Ufng"i~bgk~"YXi~"Ui~#ghi~XYbhg#fYgci~fWYg#Ufng"i~bgk~"YXi~"Ui~#ghi~XYbhg#fYgci~fWYg#Ufng"i~bgk~"YXi~"Ui~#ghi~XYbhg#fYgci~fWYg#Ufng"i~bgk~"YXi~"Ui~#ghi~XYbhg#fYgci~fWYg#Ufng"i~bgk~"YXi~"Ui~#ghi~XYbhg#fYgci~fWYg#Ufng~"i~bgk~"YXi~"Ui~#ghi~XYbhg#fYgci~fWYg#Ufng~"i~bgk~"YXi~"Ui~#ghi~XYbhg#fYgci~fWYg#Ufng~"i~bgk~"YXi~"Ui~#ghi~XYbhg#fYgci~fWYg#Ufng~"i~bgk~"YXi~"Ui~#ghi~XYbhg#fYgci~fWYg#Ufng~"i~bgk~"YXi~"Ui~#ghi~XYbhg#fYgci~fWYg#Ufng~"i~bgk~"YXi~"Ui~#ghi~XYbhg#fYgci~fWYg#Ufng~"i~bgk~"YXi~"Ui~#ghi~XYbhg~"YXi~"Ui~#ghi~XYbhg~"YYbhg~"Yybh$

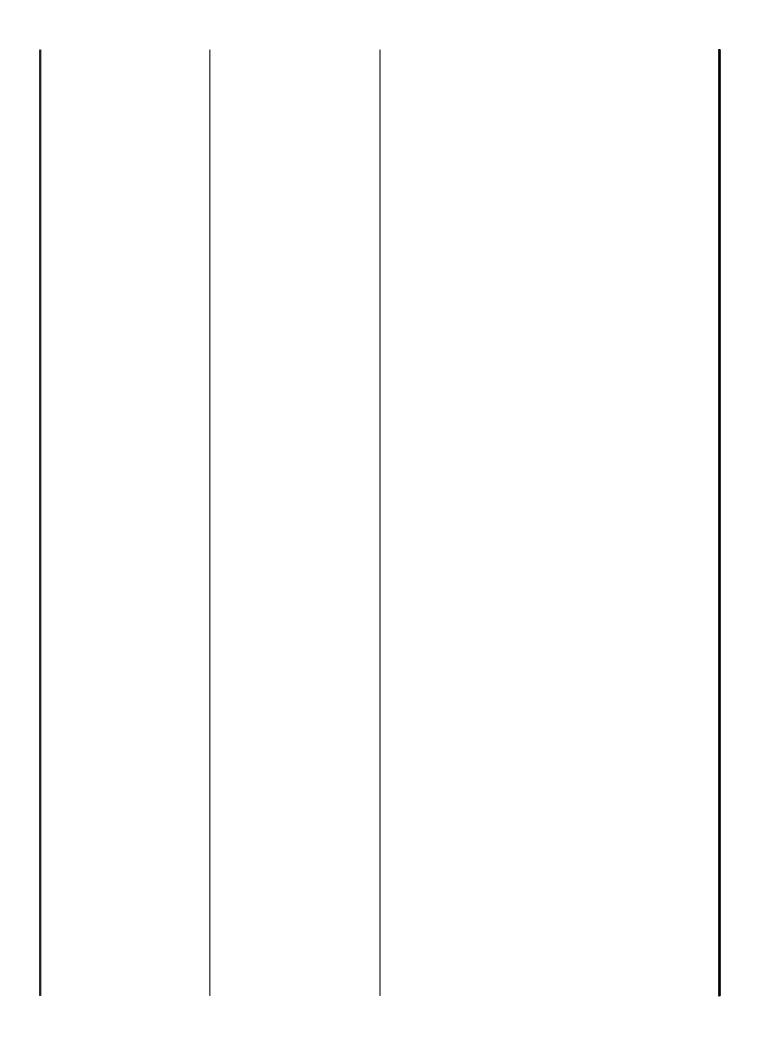
H\Y'GW.cc"cZGcWJU"GWJYbWrg Yl dYWrg th.Ungh XYbhg k]"'UthYbX' "GWJYbi XYbhg k]"'UthYbX' "GWJYbi XYbhg k]"'UthYbX'

``GWJYbi XYb

H]a YtUV`Y

8 UHY	HmdY	7 cbH/bh
K YY_'%'%)': YVfi Ufm'!'%- : YVfi Ufm	GYa]bUf	K YY_'%f%+# YVŁ'; `cVU``dc`]h]Wg. h\Y`VUg]Wg #b`h\]g`WUggžk Y`k]```Yb[U[Y`]b`U`VfcUX`cjYfj]Yk`cZ k\Unh\YgY`hYfag`fY"["'cf][]b`]b`UWUXYa]W`]hYfUh`fYž X]ZZYfYbh]bhYfdfYhUh]cbgž]adcfhUbW\Zcf`'fYU`'``]ZYŁ
		UbX:X]gW gg:k \c'UfY:_YmUWcfg:]b gh X]Yg:cZ[`cVU`dc`]h]Wg":H\Y:a U]b:[cU`]g:hc'dfcj]XY:h\Y:VUg]W Zci bXUh]cbg:Zcf'h\Y'gh XmcZ[`cVU`'dc`]h]Wgž [`cVU`]nUh]cb:UbX'[`cVU`[cj YfbUbWY:-']b'h\YcfmUbXdfUWf]WY"
		EW_[`SdCgWef[a`e,
		%" K \UhufY'h\Y'W\U``Yb[Yg'cZhU`_]b['UVci h'Y'aTS^dc`]h]Wg'Ug'cddcgYX'hc'[`fWd Sf[a`S^dc`]h]Wg'3 &" K \UhigYdUfUhY'Xca Ygh]W#bhYfbUh]cbU`#[`cVU`dc`]h]Wg'3'+b'k\Uhik Umg'h\Y'WcbWYdhg'cZY'aTS^UbX'[`fWd Sf[a`S^%Lcj Yf'Ud'UbX'&LUfY'X]ZZYfYbhZfca 'cbY'Ubch\Yf"
		F Yei]fYX F YUX]b[g.
		 K Y]ggžH\ca Ugʻ; žK]`_]bgcbžFcfXYbʻUbX I bgYhf&\$%(ŁFYh\]b_]b['[`cVU` [cj YfbUbVW3'7 ca d`YI]lmž'Ui h\cf]lmž'dck Yfž VX.Ub[Y"; `fWd Sf[a` S^V
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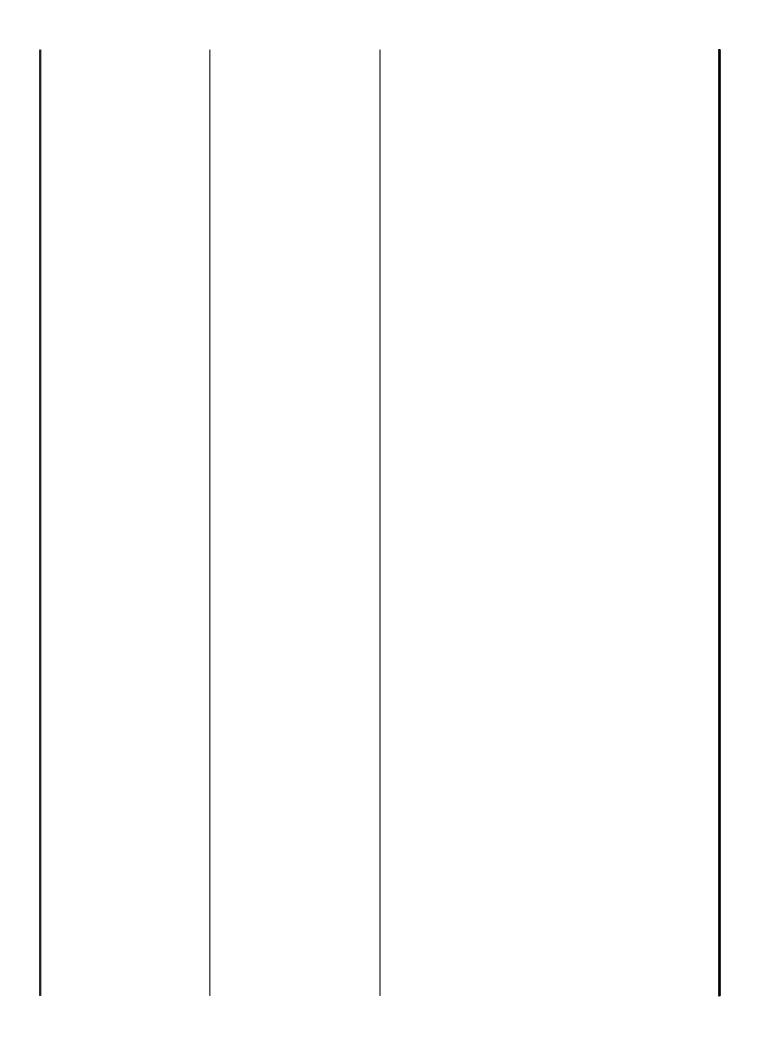
	hc'i bXYfghUbX]b['=bhYfbUh]cbU`FY`Uh]cbg"'KY'ZcWgcb'fYU`]ghz``]VYfU``UbX'WcbghfiWh]j]gh'UddfcUWXYg"



	>[TW651e_,	
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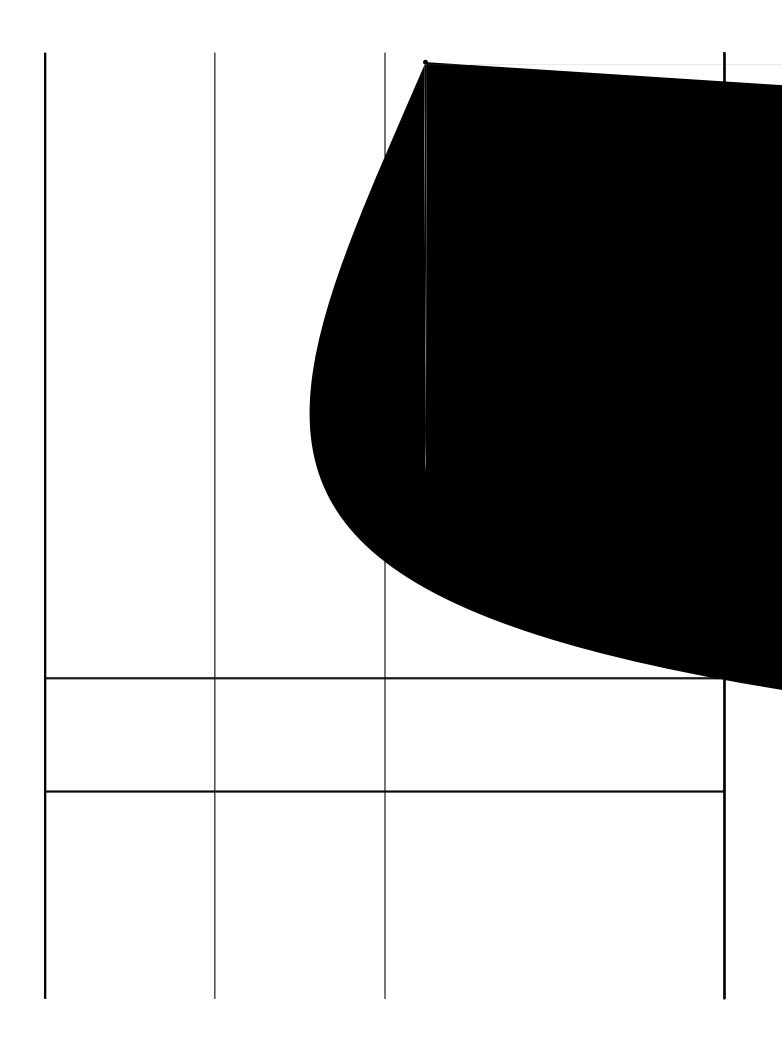
	eaU[Wfkł #\$/&fi^*, +!+% "

	Pografius Pograf



	; fWd Sf[a` S^EkefW_ e [I adV: [efack, DW_S] [Y fZWE fgVk aX; fWd Sf[a` S^ DWSf[a` e fC ZcfX. C ZcfX. I b] Yfg]mDfYggt" - >UW_gcbžF cVYfnf% t."Gcj YfY][bhm]b K cfX Dc]h]Wj. 5; 'UbWY UhhXY 7 cbWdh U'UbX' <]grcf]WU`@UbXgWUdY"Ba {ffUS^ EfgV[We (+fl t.'(' %) *" - GcZYfZGUggcb f%\$\$-t."HYY Dfca]bYbWY cZ <]grcf]WU`8 Ya UfWUh]cbg. K Ygrd\U`]U'UbX hXYBYk K cfX'CfXYf" 6 [b^a_ SUk "EfSfWU65X &\$ff%t."%-%-" - Gi ni _JžG\c[c.ft&\$\s\\$!"-JdUb'\g\GcW]U]gUh]cb]brc'>Ubi gt: UWXY 9 i fcdYUb'\s\hYfbUh]cbU' GcW]Vml' 7 gc\hy\hS (-8 +1%"" - K Uhgcbž5XUa 'f%- &tFZW7 ha 'gf[a` aX; fWd Sf[a` S^EaU]Wfk fl\@cbXcb. Fci hYX[Yt-%)]\. 8 ++" EahW\hy\f fk S` V fZWEfSfW

		TgYbX`\Ug`Ugc`i g\YfYX`]b`a Uef`gHî Wî fU`WXUb[Y' +bXYYXZgY]YfU`gW&c`Ufg`\UjY`gi [[YghYX.h\Uhih\Y YbX`cZh\Y`7c`X`K Uf`\Ug`i g\YfYX`]b`ih\Y`9bX`cZ <]ghcfmcf`U`BYk`K cf`X`CfXYf"`H\YgY`WU]a g`k`]`` VY`UggYggYX`]b`ih\Y`gYa`]bUf" EW_[\$dCgWef[a`e, %' <ck`x]x`ih\y`7c`x`k \u`zczh\y`&\$ih\wfbi="" fm3<="" th="" uf`g\udy="" bhyfbuhjcbu*#`cvu`*fy`uhjcbg`]b`ih\y`gywcbx=""></ck`x]x`ih\y`7c`x`k>
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[fUbh]b[cZ]bXYdYbXYbWYhch\YWccb]Yg gi VgYei Ybhm`YX'hc'h\Y'Ya Yf[YbWY'cZh\Y''H\]fX K cfX'cfh\Y'; `cVU`Gcih\'"AUbmcZh\YYZZYWgcZ |Wc`cb]U`]ga='UbX'XYWc`cb]gUh]cb'UfY'h\YfYZcfY'gh]``'ZY`h hcXUmilbihXYWcbhYI hcZilggi YgifY`Uhlb[ihc]bhYfbUh]cbU`XYjY`cdaYbhžYWcbca]W]bYeiU`]h]Yg VYfk YYb gfUfYg UbX f\Y d\Ybca YbU cZgc!WU``YX ZJ]`YX`qhUhYq"`≢o`YI d`cf]b[`h\]q`hcd]WžkY`k]```U`qc Wcbg]XYf'Vch\rh\Y'9b[`]g\'GW\cc`'WcbWdhcZUb <code>']bhYfbUh]cbU``gcW]Yhmi`UbX`dcghWc`cb]U``UddfcUWXYg</code> hc:[`cVU`dc`]h]Wg:UbX:h\Y]f:WU]a:h\Uh'h\Y:X]gW]d`]bY cZ=fž``]_Y`]bhYfbUh]cbU``gcW]Yhm`]hgY`Zz`fYhU]bg`Ub]b\YfYbh'9i fcWbhf]ga "`` GVA IbOOE gVgfabg, $\%'' < ck g][b]Z[WUbhk Ug XYWc cb]gUh]cb]b h\Y$ Yjc`i hjcb`cZ]bhYfbUhjcbU``gcWjYhm3 &" K \Uhi]g'h\Y'`Y[UWmcZ9i fcdYUb Wc`cb]U`]ga 3 =g']hghj``g][b]ZJWUbhZcf]bhYfbUh]cbU``gcW]YhmhcXUm3 '" K \UhiXcYg`dcghWc`cb]U``h\Ycfm'UXX`hc`cif UbU`mgYg`cZ[`cVU``dc`]h]Wg3.K \mi]g`]h la dcftUbh3 F Yei]fYX F YUX]b[g.

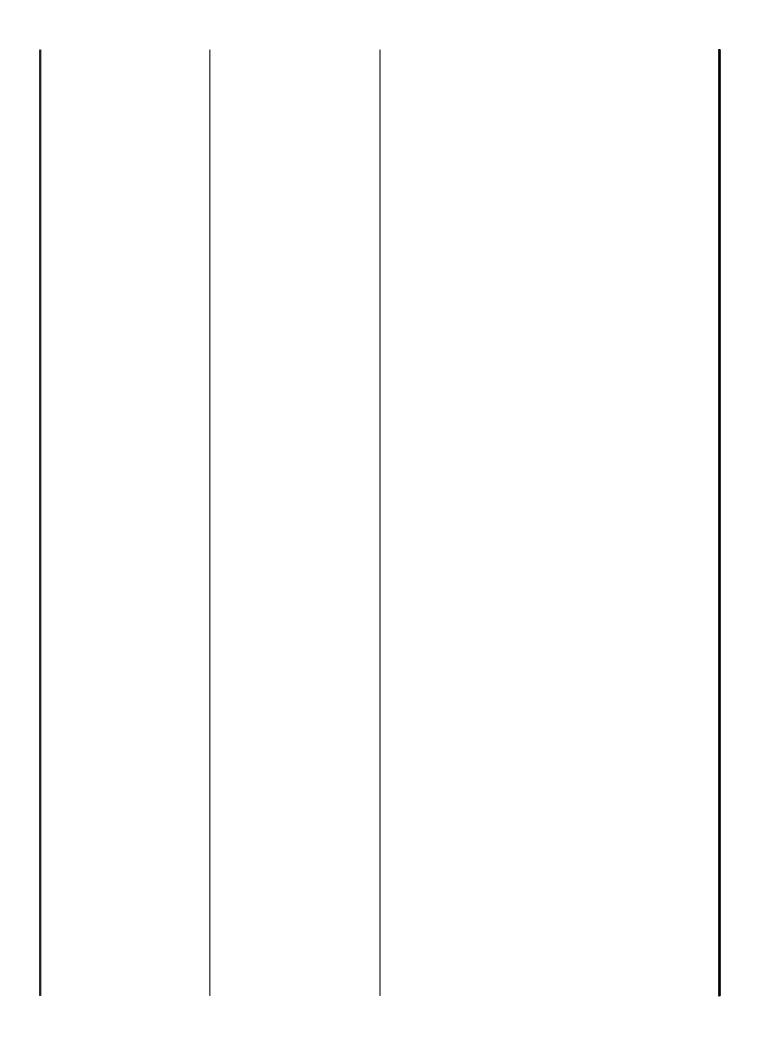
K YY_', .') '5df]`'!'- '5df]`	GYa]bUf	KYY_', 'f\$+'5df]`Ł'≢bhYfbUh]cbU`'@Uk'/'; `cVU` ; cjYfbUbWY

	B Uhi fY XcYgʻbchUW_bck `YX[Y 'Y[U``cf`dc`]hJWU` Vci bXUf]Yg" 'H\YfYZcfYžYbj]fcba YbhU`]ggi YgʻUfY cbY`cZh\Y`a cgh]a dcfhUbhUfYUgʻk \YfY`[`cVU` WccfX]bUhJcb`]gʻbYWYggUfm' 7`]a UhY 'W\Ub[Yž'U]f dc``i hJcbž'ZfYg\k UhYf'Uj U]`UV]`]mž'Ugʻk Y```Ugʻh\Y]a dUWficZdcdi `UhJcb`[fck h\`UbX`Wcbgi a dhJcb dUhYfbgʻUfY`^\ghgca Y`cZh\Y`W\U``Yb[YgʻfYei]f]b[a i `hJ`Yj Y``dc`]WJYgʻUbX`gc`i hJcbg"
	GYa]bUfEiYgh]cbg.
	<pre>%" FY[UfX]b['h\Y'7`Udd'/'8UijYf[bY'fYUX]b[ž k\]W\kcfXj]Yk hc'mci ZbX'h\Y'acgh WcadY``]b[#Wcbj]bW]b[']b'XYU`]b['k]h\'[`cVU` Ybj]fcbaYbhU`dfcV`Yag3'K\m3 &" K\UhUfY'h\Y'Ybj]fcbaYbhU`žYWc`c[]WU`ž'UbX\iaUb'Wcghg'cZW]aUhY'W\Ub[Y3'fkckE'WUb [`cVU`gmghYag'cZ[cjYfbUbWY'UXXfYgg h\YgY']ggiYg3</pre>
	F Yei]fYX F YUX]b[g.
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- &" K \]WX 'j c]WYg`\Uj Y`VYYb`UbX#cf`fYa U]b``YZh
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- ' " K \UhUfY gca Y cZh\Y [`cVU`]a d`]WUh]cbg cZ WcbhYa dcfUfmZ]bUbW]U` Wf]gYg3 < ck 'Xc h\YgY Wf]gYg YZYWhX]j YfgY UWcfg fY"[" ghUhYgž cf[Ub]nUh]cbgž]bX]j]Xi U`gž Wca a i b]h]YgŁ]b X]ZYfYbhk Umg3

FYei]fYXFYUX]b[g.

- =YbVYffmž; "'>"'f&\$% Ł"'H\Y'YbX'cZ`]VYfU`]bhYfbUh]cbU`'cfXYf3"; fWd Sf[a`S^ 3XS[deł +&f%Łž'+!&' "
- 7 ccdYfž5": "'UbX'H\U_i fž'F "ž&\$% "'H\Y
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 [cj YfbUbWY"'=b';' fWd Sf[a` S^A dYS` [l Sf[a`
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7 YblfYgʻUbXʻBYkʻDckYfʻ6fc_Yfg.ʻ5fYʻH\YmG\Ud]b[ʻ5ʻBYkʻ9Wbca]WCfXYf3"' ;`fWd Sf[a`S^3XS[de,(fl Łʻ(,)-(-,
• <u>k k k "]a Z'cf[</u> ž <u>k k k "k cfXVUb "cf[</u> ž' <u>k k k "k hc"cf[</u> `

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 $\label{thm:linear_continuous_bc} \text{H\Y'FYUX]b[''; i]XY'ZcfYUW\'hcd]WVY`ck'']g'X]j]XYX'']bhc'hk c'gYWf]cbg'-'FYei]fYX'FYUX]b[''UbX''FYWcaaYbXYX'FYUX]b['.$

5```fYei]fYX`fYUX]b[g'UfY'Uj U]`UV`Y'h\fci [\'@Y[Ubhc"

 $\label{eq:Ghinner} \text{Ghin XYbhg'a Um'U'gc'Z} \text{bX'h} \text{Y'Zc'`ck]b['k YVg]hYg'UbX''c'i fbU'g''i gYZ''.}$

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K YVg]hYg	>ci fbU`g

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Mci 'k]```VYbYZhZca 'VYWca]b['ZJa]`]Uf'k]h\; cc[`YGW\c`Uf'f\htd.#gW\c`Uf''[cc[`Y''\wca_k`Ug`U`_YmgYUf\\\ Yb[]bY 'Zcf`U\WXYa]\Wdi V`]\\Whicbg`UbX`fYdcfhg'' \Mci '\\Wb`gYhi d`h\Y`dfYZ\fYb\\g`g'hc``]b_'hc`h\Y`I BGK @]\VfUfmYj Yb`k \Yb`mci 'UfY`bchcb`\\Wa di g''; c`hc'; cc[`Y`G\\\c`Uf2`gYh]b[g2``]\VfUfm`]b_gž`UbX`YbhYf 'I b]j Yfg]\mcZBYk 'Gci h\`K U`Yg'`]\b`h\Y`\VcI 'Zcf`''@]\VfUfm'.

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Mci 'Wub'g][b'i d'Zcf'HUV'Y'cZ7cbhYbhg'fHC7Ł'5'Yfhg'Zfca 'h\Y'\caYdU[Yg'cZfY'Yj Ubh'ci fbU'gž'hc'fYWY]j Y Ub'YaU]''k\YbYj Yf'bYk'UfhJWYg'UfY'di V']g\YX']b'h\Uh'ci fbU'"'>ci fbU''k YVg]hYg'k]`'cZhYb'WUffm]bZcfaUf]cb'cb'h\Y'acghj]Yk YX'UbX'acghWhYX'UfhJWYg/h\YgY'UfY'`]_Y`mhc'VY']bhYfYgh]b['UbX'cZhYb]bZi YbhJU`'Wcblf]Vi hJcbg"'; cc['Y'GW.c'Uf'k]``'U`gc'dc]bh'mci 'hc'UfhJWYg'h\Uh'\Uj Y'WJhYX'U'dUfhJW'\Uf'UfhJWYUbX'\YbW''k]``'VY'fY`UhYX'hc'h\Y'hcd]W

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FYWca a YbXYX FYgci fWYg

7 ci fgY 9j U'i Uh]cb UbX 8 Yj Y`cda Ybh

Gi Va]gg]cb cZ5ggYgga YbhHUg_g

Hi fb]h]b Gi Va]gg]cb

#mci 'YbWci bhYf'U'dfcV'Ya 'k \Yb'UhHYa dhJb['hc'gi Va]hmci f'Ugg][ba Ybhh\fci [\'Hi fb]hJbž'd'YUgY
hY'Yd\cbY'9| hYfbU''Gi ddcfhcb'-',) '' ' ' %cf'Ya U]''h\Ya 'cb'Y! hYfbU'hY'hgi ddcfh4 i bgk "YXi "Ui '"'Gi ddcfh
\ci fg'UfY', .\$\$Ua '-'%\$.\$\$da 'cb'k YY_XUmg'UbX'-.\$\$Ua '-').\$\$da 'cb'k YY_YbXg'fl *) 'XUmg'U'mYUfŁ" #Zmci
UfY'i bUV'Y'hc'gi Va]hmci f'Ugg][ba YbhXi Y'hc'U'ZJi 'hk]h\'Hi fb]hJb'mci 'a UmUdd'mZcf'Ub'Y! hYbg]cbž'Vi hmci
a i ghfYhJ]b'mci f'hJW_Yhbi a VYf'Zfca '9! hYfbU''Gi ddcfhfU'cb['k]h\'Ubmch\Yf'fY'Yj UbhXcW a YbhgŁ'hc

5WUXYa]W<cbYghmUbXD`U[]Uf]ga

- i bXYfgHUbX'mci f'f][\hg'UbX'fYgdcbg]V]`]h]Yg'Ug'U'gh XYbhUhI BGK
 VY'Uk UfY'cZd`U[]Uf]ga ž'Wcdmf][\hz'I BGK 'Gh XYbh7cXY'cZ7cbXi WhUbX'5VWWdhUV`Y'I gY'cZ IBGK =7 HF Ygci fWrg Dc`]Wh