

MODL5107

HfUbg`Uhcb'HYW\bc`c[m

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

7ci fgY^{*}Cj Yfj]Yk

GHJZZ:7cbHJWh:8YHJ]`g

7cbj Ybcfg

B Ua Y	9a U]`	5j U]`UV]`] m	@cWUhjcb	D\cbY
GYUb [.] 7\Yb[gYUb"W4 i bgk "YXi "Ui	H\ifgXUm'%!'&cf	A 6&+,	- ' ,) '&' %(
		Vm'Uddc]bha Ybh		

@YWhi fYfg

B Ua Y	9a U]`	5j U]`UV]`]lm	@cWJhjcb	D\cbY
GYUb [.] 7\Yb[gYUb"W 4 i bgk "YXi "Ui	H\ifgXUm'%\$!%&cf	A 6&+,	-',) '&' %(
		VmUddc]bha Ybh		

Hi hcfg

B Ua Y	9a U]`	5j U]`UV]`]lm	@cWJhjcb	D\cbY
GYUb [.] 7\Yb[9	H\i fgXUm%!%cf VmUddc]bha Ybh	A 6&+,	-',) '&' %(

GWkcc`7cbhUWh ≠bZcfa Uh]cb

 $\label{eq:GWCCCCZ} $$GW.cc``cZ< i\ a\ Ub]h]Yg`UbX`@Ub[i\ U[\ Yg]$$

5ggYgga Ybh

Gi Va]gg]cb`bchYg. `D`YUgY`gYY`A ccX`Y`Zcf`h\Y`]bghfi Wh]cbgž`fYgci fWYgž`UbX`a Uf_]b[`Wf]hYf]U`Zcf`h\]g UggYgga Ybh'

 $\label{thm:continuous} \begin{tabular}{ll} Hi fb]h]b"gYh]b[."H\]g"Ugg][ba Ybh]g"gi Va]hhYX"h\fci [\Thi fb]h]b"UbX"gh XYbhg"WUb"gYY"Hi fb]h]b"g]a]"Uf]hm fYdcfhg" \end{tabular}$

5ggYgga Ybh' . 'A UW\]bY 'hfUbg`Uh]cb dfc YWh

GhUfhixuhy. k yy **

@Yb[h\. &ž\$\$\$!&ž)\$\$ k cfXg

8 YW] g.

5 b 'Ya d]f]\WU``a U\W.]bY 'lfUbg`Uljcb'dfc Y\Wi]b 'h\Y 'Zcfa 'cZ'Ub']bX]j |Xi U``fYdcfh'f&z\$\$\$—&z) \$\$ 'k cfXgŁ"

±0X]j]Xi U``k f]hhYb`ZYYXVUW_`k]h\`U`fi Vf]W]g`dfcj]XYX`cb`YUW\`dfc^YWhk]h\`UXX]h]cbU``]bX]j]Xi U``UbX`[fci d! VUgYX`X]gW gg]cb`dfcj]XYX`]b`WUgg"

Gi Va]gg]cb bch/g. 'D`YUgY 'gYY 'A ccX`Y 'Zcf'h\Y ']bghfi Wh]cbgž'fYgci fW/gž'UbX 'a Uf_]b['Wf]hYf]U 'Zcf'h\]g UggYgga Ybh'

FYgci fW/g

DfYgWf]VYX F Ygci fWYg

5```cZh\Y`Zc``ck]b['fYgci fWyg'UfY`Uj U]`UV`Y`cb`A ccX`Y`UbX#cf'j]U'h\Y`I BGK '@]VfUfm

- A ccf_Ybgž>"ž7 Ugh]`\cžG"ž; UgdUf]ž: "ž/ '8c\Yflmž'G"'f&\$% Ł"'HfUbg`Uh]cb'ei U`]lmiUggYgga Ybh : fca 'df]b\/d`Yg'hc'dfU\/Y]\W'"7\Ua žGk]mYf'UbX. 'Gdf]b[Yf"
- G]b!k U]ž7"'f&\$%(Ł"'H\Y'F ci hYX[Y'YbWhWcdYX]U'cZhfUbg`Uh]cb'hYVXbc`c[m''@cbXcbž1?. F ci hYX[Y"
- C'<U[UbžA"/AUb[]fcbž7"f&\$% Ł"; Ua Y``cWU`]nUh]cb. `HfUbg`Uh]b['Zcf'h\Y`[`cVU``X][]hU` YbhYftU]ba Ybh]bXi qhfm"5a qhYfXUa žBYh\YfUbXq.`>c\b`6Yb^Ua]bq"
- 7 \ UbX`Yfž`<"/ '8 Ya]b[ž`G"'f&\$\&\L'"H\Y`[Ua Y``c\W`]nUh]cb`\ UbXVcc_"'@cbXcbž'l ?.`>cbYg'/6Ufh`Yhi@YUfb]b["
- A i `hj`]b[i U`. @Ub[i U[Yž'hYVX.žVi g]bYgg`\hd.##X]["a i `hj`]b[i U`"Wca #

FYWca a YbXYX FYgci fW/g

- H\Y'@YUfb]b['7YbffY'UhI BGK.'\hd.#kkkk"`Wi bgk"YXi "Ui#
- I BGK '[i]XY'hc'5D5.'\hhd.##ghiXYbh'i bgk "YXi "Ui #UdU

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

±bZcfa U`ZY c)

Gi Va]gg]cb cZ5ggYgga YbhHUg_g Hi fb]h]b Gi Va]gg]cb

-Zmci 'YbWci bhYf'U'dfcV`Ya 'k \Yb'UhhYa dh]b['hc'gi Va]hmci f'Ugg][ba Ybhh\fci [\'Hi fb]h]bž'd`YUgY hY`Yd\cbY'9I hYfbU``Gi ddcfhcb'-',)'''' %cf'Ya U]`'h\Ya 'cb'YI hYfbU`hY`hgi ddcfh4 i bgk "YXi "Ui '"'Gi ddcfh 5WUXYa]W<cbYghmUbXD`U[]Uf]ga

- i bXYfgfUbX mci f'f][\hg'UbX'fYgdcbg]V]`]hJYg'Ug'U'gh XYbhUhl BGK
- VY`Uk UfY`cZd`U[]Uf]ga ž`Wcdmf][\hz'l BGK `Gh XYbh7cXY`cZ7cbXi WhUbX`5VWWdhUV`Y`l gY`cZ I BGK `=\forall H`F Ygci f\W\g`Dc`]\m\m
- VY 'Uk UfY 'cZh\Y 'ghUbXUfXg 'cZVY\Uj]ci f'Yl dYWYX 'cZYj YfmcbY ']b 'h\Y 'l BGK 'Wca a i b]hm
- `cWUHY 'gYfj]WYg'UbX ']bZcfa UH]cb'UVci hI BGK 'UbX'I BGK '@]VfUfm

Gca Y'cZh\YgY'UfYUg'k]``VY'ZJa]`]Uf'hc'mci ž'ch\Yfg'k]``VY'bYk"'; U]b]b['U'gc`]X'i bXYfgHJbX]b['cZU``h\YfY`UhYX'UgdYWng'cZ9@+69'k]``\Y`d'mci 'a U_Y'h\Y'a cghicZmci f'ghi X]Yg'UhI BGK "'\\hd.##qi VYWfi |XYg"`]VfUfm'i bqk "YXi "Ui #\`]qY#JVci hY`]qY

5 WUXYa]W + DZcfa Uh]cb

: cf'YggYbhJU`ghi XYbh']bZcfa UhJcb'fY`UhJb['hc.

- fYei Yghg Zcf Yl hYbg]cb/
- `UhY 'gi Va]gg]cbg'[i]XY`]bYg/
- fYj]Yk 'cZa Uf_g/I BGK '<YU'h\ 'UbX'GUZYhmdc']W]Yg/