

Ghfca Ui gZU```]b 'GWX U`_Ui . 'HYWX b]_Yf UfVY]hYb 'Ub 'gWX bY``Yf '@Ògi b[°

Ghfca Ui gZÀ``Y`]b`GW\U`_Ui`Ua '%) "\$+"&\$&). `I fgUW\Ybž k]W\h][Yg`I dXUhY`i bX`≠bZcgʻni
JYfgcf[i b[gi bhYfVfYW\i b[Yb`]a 'XYi hgW\Yb`Ghfca bYhn"



GWW U`_Ui ž'8 Yi hgWW `Ub X '! '5a '\Yi h][Yb '%) "'*\`] '&\\$\\) 'g]bX']b

GWW U`_Ui 'GhÒfi b[Yb ']a 'Ghfca bYhn'[Ya Y`XYh'k cfXYbž'X]Y 'Ui Z'XUg

J YfUbhk cfhi b[g[YV]Yh'j cb 'H9B 'H\Øf]b[Yf'9bYf[]YbYhnY'; a V< '/

7c"'?; 'ni fØW_ni ZØ\fYb 'g]bX"'@Ui h'bYk g"XY' g]bX'HYWW b]_Yf

VYfY]hg'j cf'Cfhž'i a 'X]Y'DfcV`Ya Y'ni 'VY\YVYb"'CV'X]YgY

GhÒfi b[Yb ']a 'F U\a Yb'[Yd`UbhYf'K Ufhi b[gUfVY]hYb'Ui Z[YhfYhYb

g]bXž'V`Y]Vh'V]g`Ub['i b_`Uf"'5i WW 'k Ybb'XUg'XYi hgWW Y'Ghfca bYhn

U`g'Ài » Yfgh'Ui gZU``g]WW Yf'[]`hž'_Ubb'Yg'[Y`Y[Ybh`]WW 'ni

i b[Yd`UbhYb'J Yfgcf[i b[gi bhYfVfYWW i b[Yb'_ca a Yb"

=a '5``[Ya Y]bYb'_cbbhYb'`Ui h'XYf'6i bXYgbYhnU[Ybhi f'X]Y Xi fWXgWXb]hh`]WXYb'i b[Yd`UbhYb'JYfgcf[i b[gi bhYfVfYWXi b[Ybž [Ya YggYb'Ua 'G5=8 ≠?YbbnU\`Ybž']b'XYb'`YhnhYb'≯J\fYb'i bhYf'%' A]bi hYb [Y\U`hYb k YfXYb" + Y]bYa 'U_hi Y``Yb '6Yf]Wk h'k]fX
ni XYa 'XUfUi Z'\]b[Yk]YgYbž'XUgg]a '\(\frac{1}{2}\)f \(\&\frac{8}{2}\) 'XYi hgWk `UbXk Y]h
,) & BYhnVYhfY]VYf]bg[YgUa h'\%), "' *\\$

J Yfgcf[i b[gi bhYfVfYWki b[Yb 'a Y`XYhYbž'k Ug'Y]bYb '5bgh]Y['i a
Yhk U'\%"\%\) 'A Y`Xi b[Yb ']a 'J Yf['Y]Wk 'ni '\&\\$\&\&'VYXYi hYh'' '8]YgY

8 UhYb 'fYZY_h]YfYbž'XUgg 'fY[]cbU`Y'J Yfgcf[i b[gi bhYfVfYWki b[Yb
i bUV\Ab[]['j cb'[Yd`UbhYb'K Ufhi b[ga U\) bU\a Yb'Y]bY

< YfUi gZcfXYfi b['Z\Øf'X]Y'BYhnVYhfY]VYf'XUfghY``Yb

fVi bXYgbYhnU[Ybhi f"XYŁ"

K Ugʻhi bʻVY]'Y]bYa 'Ghfca Ui gZU``3

6Y]'Y]bYa 'Ghfca Ui gZU```]gh'Yg'k]Wkh][ž'Fi\Y'ni 'VYk U\fYb'i bX ni bÀWkgh'ni 'ØVYfdfØZYbž'cV'Yj Ybhi Y```Y]bY'G]WkYfi b[']a G]WkYfi b[g_UghYb'Ui g[Y`Ògh'k i fXY"'9g'k]fX'Ya dZc\`Ybž'?cbhU_h a]h'XYa '9bYf[]Yj Yfgcf[Yf'Ui Zni bY\a Ybž'ghUhh'X]Y FYhhi b[g`Y]hghY``Yb'j cb'Dc`]nY]'cXYf': Yi Yfk Y\f'ni ']bZcfa]YfYb" H9B'H\Øf]b[Yf'9bYf[]YbYhnY'\Uh'X]Y'?cbhU_hXUhYb'ZØf'X]YgYb': U``VYfY]h[YghY``h"

 $9g \cdot ghY \cdot h \cdot g]WX \cdot X]Y : fU[Y \check{z} \cdot k]Y \cdot gc \cdot WX Y \cdot GhOfi b[Yb \cdot \emptyset VYf \setminus Ui dh']b \cdot X]Y \\ GhUh]gh]_ : XYf \cdot J Yfgcf[i b[gi bhYfVfYWXi b[Yb \cdot Y]b[Y \setminus Yb'' <]YfVY] \\ VYfØW_g]WX h][h \cdot XYf \cdot G5 = 8 = 9bK; \check{z} \cdot U \cdot gc \cdot XYf \cdot GmghYa \cdot 5j YfU[Y = bhYffi dh]cb \cdot 8i fUh]cb \cdot 4b XYI \check{z} \cdot bi f \cdot i b[Yd \cdot UbhY \cdot I bhYfVfYWXi b[Yb\check{z} X]Y \cdot _Y]bY \cdot \langle O \setminus YfYb \cdot ; Yk U \cdot hi a ZUggYb'' \cdot Gc \cdot _ObbYb \cdot Uha cgd \setminus Af]gWXY \\ 9]bk]f_i b[Yb \cdot cXYf \cdot Ui WX \cdot 9]bk]f_i b[Yb \cdot 8f]hhYf \cdot I fgUWX Yb \cdot ZØf \\ gc \cdot WXY \cdot GhOfi b[Yb \cdot gY]b \cdot fhZ_"XYŁ" = a \cdot ; Y[YbgUhn \cdot ni \cdot [Yd \cdot UbhYb I bhYfVfYWXi b[Yb \cdot \ UVYb \cdot X]YgY \cdot gdc \cdot fUX]gWX Yb \cdot 6YY]b \cdot hfAWX h][i b[Yb Y]bYb \cdot X]fY_hYb \cdot 9]bZi gg \cdot Ui Z \cdot X]Y \cdot [Ya Y \cdot XYhYb \cdot ? YbbnU \setminus Yb'']$

5igV`]W_ibX'Dfc[bcgYb

8]Y'6i bXYgbYhnU[Ybhi f'\Uh'Yf_Ubbhž'XUgg'X]Y'EiU`]hÀh'XYf
Ghfca j Yfgcf[ib['ZØf'X]Y'6Øf[Yf'jcb'\ÒW\ghYa'\deltahYfYggY']gh"A]h
'À\f`]W\'j YfÒZZYbh`]W\hYb'?YbbnU\`Yb'ni f'Ghfca j Yfgcf[ib['k]``
a Ub'g]W\YfghY``Ybž'XUgg'BYhnVYhfY]VYf']\fYf'JYfUbhk cfhi b[
[YfYW\h'k YfXYb"'9g'V`Y]Vh'ni '\cZZYbž'XUgg'X]Y'DfcV`Ya Y']b
GW\U`_Ui 'gW\bY``qha Ò[`]W\'VY\cVYb'k YfXYbž'XUa]h'X]Y

5bk c\bYf'VU`X'k]YXYf'a]h'Ghfca 'j Yfgcf[h'k YfXYb'_ObbYb"

Ni gUa a YbZUggYbX``Àggh'g]W\`ZYgh\U`hYbž'XUgg`X]Y

J Yfgcf[i b[gi bhYfVfYW\i b[Yb']b'8Yi hgW\`UbXž'k À\fYbX'g]Y

[Y`Y[Ybh']W\`Ui ZhfYhYbž']a '; fc»Yb'i bX'; UbnYb'Xi fW\'X]Y

Ni j Yf`Àgg][_Y]h'XYf'BYhnVYhfY]VYf'[i h'[Ya UbU[h'k YfXYb"

8YbbcW\']gh'Yg'k]W\h][ž'ghYhg'j cfVYfY]hYh'ni 'gY]b'i bX'ØVYf'X]Y

f]W\h][Yb'GW\f]hhY']a ': U```XYf': À``Y']bZcfa]Yfh'ni 'gY]b"

8 Y hU]`g	
Cfh	GWXU`_Ui ž'8Yi hgWX`UbX
EiY``Yb	• k k k "bYk g"XY
	kkk"VibXYgbYhnU[Ybhif"XY
	• k k k "nZ_"XY

6Ygi WXYb G]Y i bg Ui Z b!U["bYh