

6Ui UfVY]hYb^]b^9VYfgVYf[.^GdYffi b[^Ua F Uh\ Ui g^V]g^%("^\maxis^]^j Yf^\Ab[Yfh^\circ*

6Ui UfVY]hYb']b'9VYfgVYf['j Yf`Àb[Yfb'g]WX.'?fYi ni b['Ua FUh\Ui g'V]g'%("'>i`)'[YgdYffhž'I a `Y]hi b[Yb'i bX :i »[Àb[Yf]bZcg'VYUW\hYb"



9VYfgVYf[ž:8 Yi hgW `Ub X '! '\ TXYf'gW\ ObYb'GhUXh'9VYfgVYf[
XØfZYb'g]W\ 'X]Y'5bk c\bYf'i bX'DYbX'Yf'Ui Z'Yhk Ug'`\Ab[YfY
K UfhYnY]hYb'Y]bghY``Yb"'8]Y'6Ui ghY``Y'Ub'XYf'?fYi ni b['j cf'XYa
F Uh\ Ui g'k]fX'nk Y][YhY]`hž'i bX'X]Y'GdYffi b[Yb'n]Y\Yb'g]W\ 'bi b
`\Ab[Yf'U`g'i fgdfØb[`]W\ [Yd`Ubh"'?cb_fYh'k]fX'X]Y'YfghY'6Ui d\UgY
V]g'ni a '\("'\frac{1}{3}\)]'&\\$\&\) 'j Yf`\Ab[Yfhž'k \A\fYbX'X]Y'<Y]bf]W\!J c[`!
GhfU\(\text{Y}\)Y]']' cfYfgh', "'5i [i gh'\&\\$\\)) 'b]W\h'VYZU\fVUf'gY]b'k]fX"'
A Yf_i f'VYf]W\hYhž'XUgg'XYf'; fi bX'ZØf'X]Y'JYfnO[Yfi b['X]Y
Yf\YV`]W\'[fO\(\text{Y}\)Yf'?ca d`YI]h\Ah'XYf'?UbU`gUb]Yfi b[']ghž'U`g
ni b\AW\gh'Ub[Ybca a Yb"</pre>

8]Y'GUb]Yfi b[gUfVY]hYb'\UVYb'Ua'%\$"' \Rightarrow b]'&\$&)'VY[cbbYb'i bX VYhfYZZYb'j cf'U``Ya'X]Y'9VYf\UfXghfU \Rightarrow Y'i bX'X]Y'<Y]bf]W\!J c[`!

Ghfu» Y" \Rightarrow XYf' < Y]bf]WX!J c[`!Ghfu» Y']gh'X]Y'9fbYi Yfi b['XYf'U`hYb K UggYf`Y]hi b['bÒh][\check{z} 'X]Y'Ui Z[fi bX']\fYg'XYgc`UhYb'Ni ghUbXg]a a Yf'k]YXYf'Fc\fVfØWXY'j Yfi fgUWXh'\Uh"'9VYfgVYf['Yf`Ài hYfhž XUgg'X]Y'A U» bU\a Y']b'nk Y]'5VgWXb]hhYb'Xi fWX[YZØ\fh'k]fX. Ni bÀWXgh'k]fX'Ua 'A Uf]Ybd`Uhn'[YUfVY]hYhž'[YZc`[h'j cb'XYb 5fVY]hYb']b'XYf' < Y]bf]WX!Jc[`!GhfU» Y'V]g'ni f'9]WXh\U`ghfU» Y"

K]WN h][Y'=bZcfa Uh]cbYb'ni f'l a `Y]hi b[

8]Y'l a 'Y]hi b[gghfYW_Yb'g]bX'VYfY]hg'Ui g[YgWk]'XYfh'i bX'gc 'Yb
XYb'JYf_Y\f'gc'[i h'k]Y'a Ò[`]Wk''Y]hYb'': i » [Àb[Yf'_ÒbbYb'XYb
VYhfcZZYbYb'6YfY]Wk'b]Wkh'dUgg]YfYb'i bX'k YfXYb'ØVYf
A Uf]Ybd'Uhn'i bX'J U'hcf[UggY'i a [Y'Y]hYh''5i » YfXYa 'k YfXYb
: U\ffUXZU\fYf'[YVYhYbž']b'X]YgYa '5VgWkb]hh'UVni ghY][Yb'i bX']\f
FUX'ni 'gWk]YVYb'''GØXXYi hgWkY'VYgWkfY]Vh'X]Y'l a 'Y]hi b[Yb'ZØf
5i hcg'i bX'@Ughk U[Ybž'X]Y'k Y]hfÀi a]['i a [Y'Y]hYh'k YfXYb
a ØggYb'''6Y]gd]Y'gk Y]gY'ZØ\fh'X]Y'l a 'Y]hi b['nk]gWkYb
A Uf]Ybd'Uhn'i bX'XYf'bÒfX']WkYb'9VYf\UfXghfU»Y']b'F]Wkhi b[
K YghYb'ØVYf'X]Y'6U\b\cZghfU»Y'i bX'K UggYfVi f[Yf'GhfU»Y'V]g'ni f
6'' \$('bUWk'GhY]b\Òf]b["

 $GWKKYf`Ughj Yf_Y\f`fØVYf`' ž) ``HcbbYbŁ'a i gg``UbXYfY`Fci hYbbY\a Yb'i bX`K]fX``ØVYf`X]Y``6U\b\cZghfU\bY'i bX`K UggYfVi f[YfGhfU\bY'Ui Z'X]Y``6'' $(``V]g``9X`]b[``[Y`Y]hYh'''Jcb'Xcfh`[Y\hYg``ØVYfFC'(&#A\] `('*'bUWK'5`VUWK]b['''8]Y`JYf_Y\fghY]`bY\a Yf']b 9VYfgVYf['a ØggYb'g]WK'U`gc'Ui Z'Y]b][Y'I a kY[Y'Y]bghY``Ybž'V]g X]Y``5fVY]hYb'UV[YgWK`cggYb'g]bX'i bX'X]Y``GhfU\bYb''K Y]gY`VYZU\fYb'k YfXYb'_ObbYb''$

8]Y GhUXhj Yfk U`hi b['V]hhYh'U``Y 6Yhfc ZZYbYb'i a 'J YfghÀbXb]g'ZØf X]Y I bUbbY\a `]WX_Y]hYbž'X]Y 'X]Y '6Ui UfVY]hYb'a]h'g]WX 'Vf]b[Yb" 8]Y 'A U» bU\a Yb'g]bX'bchk YbX][ži a 'X]Y '\dag ZfUghfi _hi f'ni j YfVYggYfb'i bX'X]Y 'J Yfgcf[i b[g`Y]hi b['Ui Z'XYb'bYi YghYb'GhUbX ni 'Vf]b[Yb" '8 Yf'5 VgWX `i gg'XYf'5 fVY]hYb']gh'gd ÀhYghYbg'ZØf'9bXY 5i [i gh'&\$&) 'j cf[YgY\Ybž'gc XUgg'X]Y '9VYfgVYf[Yf'VU`X'k]YXYf i bVYgWX k Yfh'Xi fWX'X]Y 'GhUXh'ZU\fYb'_ObbYb"

8 Y hU]`g	
Cfh	9VYfgVYf[ž'8Yi hgWX`UbX
EiY``Yb	• k k k "a Yf_i f"XY
	• k k k "YVYfgVYf["XY
	• k k k "gi YXXYi hgWXY"XY

6 Ygi WX Yb 'G]Y 'i bg 'Ui Z. 'b!U["XY