

$CdYb5=ibX.5bh\fcd]W.8]Y.Ni_ibZh.XYf$?=nk]gWXYb.=bbcjUh]cb.ibX.9h\]_



9g'k i fXYb'_Y]bY'gdYn]Z]gW\Yb'5XfYggYb'cXYf'CfhY']b'XYa j cf[Y'Y[hYb'HYI h'Yfk \dot{A} \bh"'!' \pm 'XYf''YV\UZhYb'K Y`h'XYf _\@bgh`]W\Yb' \pm hY``][Ybn'ff? \pm 'ghY\Yb'nk Y]'I bhYfbY\a Yb'[Ubn j cfbY.'CdYb5=i bX'5bh\fcd]W'6Y]XY'\UVYb'g]W\'Xi fW\g][b]Z]_UbhY': cfhgW\f]hhY'i bX' \pm bcj Uh]cbYb']b'XYf'? \pm HYW\bc`c[]YY]bYb'BUa Yb'[Ya UW\h'5VYf'k Ug'a UW\h'g]Y'gc'VYgcbXYfgži bX k c'i bhYfgW\Y]XYb'g]Y'g]W\3'8Ug'`Aggh'g]W\'[i h'Xi fW\']\fY i bhYfgW\]XYb'5bgAhnY'i bX'N]Y`gYhni b[Yb'Yf_`AfYb''

 85@@@ž:7cXYI i bX:XYa idcdi `ÀfYb:7\Uh; DH:V]YhYh:CdYb5=Y]bY VfY]hY:DU`YhhY:Ub:? \delta Hcc`gž:X]Y:]b:j YfgWX]YXYbYb:6YfY]WXYb 5bk YbXi b[:Z]bXYb::.j cb:XYf:\delta\U`hgYfghY``i b[:V]g:ni f 8UhYbUbU`mgY":8]Y:A O[`]WX_Y]hž:]b:9WX hnY]h:Ui Z:XUg:\delta hYfbYh ni ni [fY]ZYbž:]gh:Y]b:_`UfYf:J cfhY]`ž:V]f[h:YXcWX:Ui WX:F]g]_Ybž:k]Y X]Y:a O[`]WXY:J YfnYffi b[:j cb:9f[YVb]ggYb:Xi fWX J YfghÀf_i b[g`YfbYb"

$5bh\fcd]W]a \ 8YhU]$

 $\begin{tabular}{ll} K & Ug'X]Y'OZZYbh`]WXYb`FYU_h]cbYb`VYhf]ZZhž'nY][h'g]WX`Y]b \\ [Ya]gWXhYg'6]`X.`K Å\fYbX'Yg'[fc»Yg'+bhYfYggY'ibX \\ 9bh\ig]Uga i g'ZØf'X]Y'HYWXbc`c[]Yb'XYf'VY]XYb'I bhYfbY\a Yb \\ []Vhž'_ca a Yb'Ui WX'6YXYb_Yb'VYnØ[`]WX'8 UhYbgWXi hnž'<math>x$ Vj Yf`igh ibX'Yh\]gWXYf': fU[YghY``ib[Yb'UiZ''Gckc\``CdYb5='U`g'Ui WX 5bh\fcd]Wg]bX'g]WX'X]YgYf'6YXYb_Yb'VYk i ggh'ibX'j Yfgi WXYbž Xi fWX'HfUbgdUfYbn'ibX'JYfUbhk cfhib[']b'XYf'9bhk]W_`ib[Ybh[Y[Ybnik]f_Yb''] \\ \end{tabular}

9h\]gW\Y'<YfUi gZcfXYfi b[Yb

±b 'XYf'8]g_i gg]cb 'ØVYf'? = _ObbYb 'X]Y 'Yh\]gW\Yb
< YfUi gZcfXYfi b[Yb'b]W\h'j YfbUW\`Agg][h'k YfXYb"'9]bY 'XYf
[fÒ» hYb ': fU[Yb'V`Y]Vhž'k]Y 'Yh\]gW\Y'; fi bXgAhnY']b
hYW\bc`c[]gW\Y'GmghYa Y']bhY[f]Yfh'k YfXYb'_ObbYbž'c\bY'X]Y
@Y]ghi b[gZÀ\][_Y]h'ni 'VYY]bhfAW\h][Yb"'J]Y`Y'Gh]a a Ybž'b]W\h'bi f

Ui g'XYf'K]fhgW\UZhž'gcbXYfb'Ui W\'Ui g'XYa 'dc`]h]gW\Yb'FUi a ž
ZcfXYfb'_`UfYž'j YfV]bX`]W\Y'FY[Y'i b[Yb"'8]Y'9I '\Uh'X]YgVYnØ[`]W\
VYfY]hg'GW\f]hhY'i bhYfbca a Ybž']bXYa 'g]Y'Y]bYb'JcfgW\`U['ZØf
XYb'5=5Wh'j cf[Y`Y[h'\Uhž'XYf'? \delta 5bk YbXi b[Yb'bUW\'F]g]_c
_`Ugg]Z]n]Yfh"

5i » YfXYa 'j YfXYi h`]W\Yb 'Ghi X]Ybž'XUgg'HfUbgdUfYbn']b'XYf'? = j cb YbhgW\Y]XYbXYf'6YXYi hi b[']ghž'i a 'XUg'J YfhfUi Yb'XYf'Bi hnYf'ni [Yk]bbYb"'9h\]_']b'XYf'? = VY]b\U`hYh'b]W\h'bi f'X]Y'J Yfa Y]Xi b[j cb'8]g_f]a]b]Yfi b[ž'gcbXYfb'Ui W\X]Y'G]W\YfghY``i b['j cb BUW\j c``n]Y\VUf_Y]h']b'XYb'9bhgW\Y]Xi b[gdfcnYggYbž'k Ug']b j]Y`Yb'6YfY]W\Ybž'j cb'; Yg]W\hgYf_Ybbi b['V]g'\]b'ni Ui hca Uh]g]YfhYb'DYfgcbU`YbhgW\Y]Xi b[Ybž'j cb'__f]h]gW\Yf 6YXYi hi b[']gh"

6Y]XY'I bhYfbY\a Yb'Yf_YbbYb'X]Y'Bchk YbX][_Y]hž'JYfUbhk cfhi b[ni 'ØVYfbY\a Yb'i bX'U_h]j 'Ub'XYf'GW\UZI b['Y]bYg': fUa Yk cf_g ni f'; Yk À\f`Y]ghi b['Y]bYg'Yh\]gW\Yb'? \ddot 9]bgUhnYg'a]hni UfVY]hYb'' Gc'gY\Yb'9I dYfhYb']b'CdYb5=i bX'5bh\fcd]WX]Y' 6Ygh'6Yhg 'ZØf X]Y'Ni _i bZh'XYf'_Øbgh`]W\Yb'\dannahY'`][Ybnž'XU'g]Y'Ui Z'ghfUhY[]gW\Y DUfhbYfgW\UZhYb'gYhnYb'i bX'g]W\X'XmbUa]gW\'Ub'X]Y'6YXØfZb]ggY XYg'A Uf_hYg'UbdUggYb''

I a 'a]h'XYb': cfhgWkf]hhYb']b'XYf'?='GWkf]hh'ni '\U`hYbž']gh'Yg i bYf`Àgg`]Wkž'X]Y'FY[i `Uf]Yb'YbhgdfYWkYbX'Ubni dUggYb"'5i Z'X]YgY K Y]gY'_ÒbbYb'=bbcj Uh]cbYb'[YZÒfXYfh'k YfXYbž'k À\fYbX [Y]WknY]h]['X]Y'[YgY``gWkUZh`]WkYb'K YfhY'[Yk U\fh'V`Y]VYb"'=b Y]bYfNi _i bZhž']b'XYf'?=']a a Yf'a Y\f']b'i bgYfYb'5``hU[']bhY[f]Yfh k]fXž'k]fX'X]Y'6U`UbWY'nk]gWkYb'hYWkbc`c[]gWkYa': cfhgWkf]hh'i bX Yh\]gWkYb', VYf`Y[i b[Yb'k]Wkh][Yf'XYbb'Y"

CdYbHcc`g`VYf]WkhYh'j cb`XYb`VYXYi hYbXYb`9bhk] W_i b[Yb`VY] CdYb5=i bX`5bh\fcd]Wtk À\fYbX`7ci fgYfU`X]Y`I bhYfgWk]YXY nk]gWkYb`XYb`VY]XYb`I bhYfbY\a Yb`_`Uf`Ui ZnY][h"' \Rightarrow 'XYf 8]g_i gg]cb`i a '? \Rightarrow 9h\]gWkY': fU[YghY``i b[Yb``]YZYfh'? \Rightarrow 9Wk c k Yfhj c``Y`9]bV`] W_i Y']b`X]Y'<YfUi gZcfXYfi b[Yb`i bX`bÒh][Yb A U» bU\a Yb`ZØf`Y]bYb'j YfUbhk cfhi b[gj c``Yb`I a [Ub[`a]h`X]YgYb HYWkbc`c[]Yb"

8 Y hU]`g	
Cfh	9g°k i fXYb°_Y]bY°gdYn]Z]gW\Yb°5XfYggYb°cXYf
	CfhY`]b`XYa`jcf[Y`Y[hYb`HYIh`Yfk À\bh"
EiY``Yb	• cdYbhcc`g"U]
	kkk"WcifgYfU"cf[
	 _]! Y W C "X Y

6 Y gi W Y b 'G]Y 'i b g 'Ui Z 'k ca , + "X Y