

5`a U`A U\`Yf'i bX`Cg_Uf'?c_cgWX_U. @Y]XYbgWX UZh'cXYf'NYfghÒfi b[3

9fZU\fYb'G]Y'a Y\f'ØVYf'5`a U'A U\`Yf'i bX'Cg_Uf'?c_cgW_Už XYfYb'`Y]XYbgW\UZh`]W\Y'6Yn]Y\i b['X]Y'K]YbYf'?i bghgnYbY dfÀ[hY"'8Yf':]`a \prime ei ch \prime 5`a U'i bX'Cg_Uf \prime ei ch \prime 'k]fX'Ua '%- " \Rightarrow `]'&\$&) 'Ui Z'' gUh'Ui g[YghfU\`h"



K]Ybž'² ghYffY]WX '! '5 `a U'A U\`Yf'k Uf'Y]bY'gWX]``YfbXY DYfgÒb`]WX_Y]hXYf'K]YbYf'; YgY``gWX UZh'ni '6Y[]bb'XYg'&\$" \$U\f\ibXYfhg"'6Y_Ubbh'Xi fWX']\fY'9\Yb'a]h'dfca]bYbhYb A ÀbbYfb'k]Y'XYa '? ca dcb]ghYb'; i ghUj 'A U\`Yfž'XYa '5fWX]hY_hYb K U`hYf'; fcd]i g'i bX'XYa 'GWXf]ZhghY``Yf': fUbn'K YfZY`ž'\]bhYf`]Y» g]Y'Ui WX'Xi fWX']\fY'`Y]XYbgWX UZh`]WXYb'5ZZÀfYb'V'Y]VYbXY'Gdi fYb]b'XYf'?i bghgnYbY"'6YgcbXYfg'X]Y'6Yn]Y\i b['ni f YI dfYgg]cb]gh]gWXYb'=_cbY'Cg_Uf'?c_cgWX_U']gh'VYa Yf_Ybgk Yfh'' G]Y'k]fX'i bhYf'UbXYfYa ']a 'Gd]Y`Z]`a ' 5`a U'i bX'Cg_Uf VY\UbXY`hž'XYf'Ua 'GUa ghU[ž'XYb'%- "' \Rightarrow `]ž'i a '&&"\$\$'I \f'VY]'' gUh Ui g[YghfU\`h'k]fXž'k]Y'F UX]c' < c WX gh]Zh'VYf]WXhYh''

8 Yf::]'a ž'XYf'Ui Z'XYa 'F ca Ub' 8]Y'K]bXgVfUi h 'j cb' <]'XY'6Yf[Yf VUg]Yfh'i bX'i bhYf'XYf'FY[]Y'Y]bYg'ÒghYffY]WX]gWXYb 'FY[]ggYi fg YbhghUbXž'[]Vh'Y]bYb 'h]YZYb '9]bV']W_']b 'X]Y'nk]gWXYba YbgWX']WXYb JYfghf]W_i b[Yb'i bX'A UWX hgd]Y'Y'XYf'VY]XYb':][i fYb'' +b'Y]bYa K]Yb'XYg'*JJ\fYg'%- %&ž'bUWX'XYa 'HcX'j cb'; i ghUj 'A U\'Yfž VY[]bbh'5'a U'fXUf[YghY'`h'j cb'9a]`m'7cl Ł'Y]bY'ghØfa]gWXY'5ZZÀfY a]h'?c_cgWX_U'fJJ U'Ybh]b'Dcgh'a UmfŁŽ'X]Y'g]WX'VU'X']b'Y]b'Gd]Y'i a A UWX h'i bX'5V\Àb[][_Y]h'j Yfk UbXY`h''8]YgY']bhYbg]j Y'6Yn]Y\i b[k Uf'U``Yg'UbXYfY'U'g'Y]bZUWX ž'k]Y'XYf':]'a 'nY][hž'i bX'VY'Yi WXhYh X]Y'8 mbUa]_'nk]gWXYb'?c_cgWX_Už'XYf'U'g' 9bZUbh'hYff]V'Y 'XYf K]YbYf'?i bghgnYbY'[]`hž'i bX'5'a Už'X]Y'Yg'k U[hž'[YgY``gWX UZh`]WXY?cbj Ybh]cbYb'UVni 'Y\bYbž'k]Y'GF: '\]bni ZØ[h'

9]b @YVYb]a GdUbbi b[gZY`X XYf?i bgh

 $5`a U'i bX'Cg_Uf'VY[Y[bYhYb'g]WX'Yfgha U`g']a `5df]``%- %&']a < Ui g'j cb'7Uf``A c``"'G]Y'k c``hY'g]WX'j cb']\a `dcfhfÀh]YfYb'``UggYbž k Ug'ni 'Y]bYf``Y]XYbgWX UZh`]WXYb'@]YVYgVYn]Y\i b[`ZØ\fhY'' ?c_cgWX_U'gWXi Z'a Y\fYfY'?i bghk Yf_Y'ZØf'5`a Už'XUfi bhYf'Y]bY GYf]Y'j cb': <math>AWXYfb'i bX'Y]b'DcfhfU]h'' \Rightarrow fY'6Yn]Y\setminus i b[`k Uf'YXcWX hi fVi `Ybhž'[YdfA[h'j cb'9]ZYfgi WXh'i bX'?cbZ]_hYbž'i bX'YbXYhY %- %) ž'U`g'5`a U'X]Y'JYfV]bXi b[`ZØf'VYYbXYhYf_`AfhY'''?i fn'XUbUWX\Y]fUhYhY'g]Y'K U`hYf'; fcd]i gž'XYb'g]Y'VYfY]hg'%- %$'_YbbYb[Y`Yfbh\UhhY''' \Rightarrow fY'; YgWX]WXhY'gck]Y'X]Y'gdUbbi b[g[Y`UXYbY'6Yn]Y\i b[g]bX'b]WXh'bi f'fca Ubh]gWXž'gcbXYfb'Ui WX'hfU[]gWXž'k]Y'Ui Z'DGIXc_i a Ybh]Yfh'k]fX''$

 $9VYbZU``g`ZUgn]b]YfYbX']gh`X]Y`gdYn]Z]gWXY`8mbUa~]_']bbYf\U`V`XYf~6Yn]Y\ib[~...?c_cgWk_U`k~Uf`VYg]hnYf[~fY]ZYbX`i~bX`Y]ZYfgØWX~h][~ž~k~Å\fYbX`5`a~U`U`g`A~i~gY`U[~]YfhYž`X]Y`]\fYb`Y][~YbYb`K~ØbgWXYb~Zc`[~hY"`8~Yf':~]`a~ij~Yfa~]hhY`h`Y]bXfi~W_gj~c``ž`k~]Y`X]Y`VY]XYb~a~]hY]bUbXYf`i~a~[~]b[~Yb~~Yg`]gh`Y]b`hcl~]gWX~Ygž`UVYf`[~`Y]WX~nY]h][~]bgd]f]YfYbXYg`A~UWX~hgd]Y`"`,~VYf`XYb`?i~`hi~fgWX~cW_`nk~]gWX~Yb`5`a~U~A~U\`Yf`i~bX`Cg_Uf`?c_cgWX_U`\]bUi~gž`k~]fX`Ui~WX`XYi~h`]WX~ž`k~]Y~X]YgY`6Yn]Y\i~b[~X]Y`@YVYbgk~Y[~Y`VY]XYf`?~Øbgh`Yf`VYY]bZi~gghY~i~bX`]b`]\fYf`?i~bgh`k~Y]hYfk~]f_hY"$

9]b 'V`Y]VYbXYg '9fVY

5`a U'i bX'Cg_Uf 'V]YhYh'b]W\h'bi f'Y]bYb'ZYggY`bXYb'6`]W_']b'X]Y
J Yf[Ub[Yb\Y]hž'gcbXYfb'gdf]W\h'Ui W\'i b]j YfgY``Y'H\Ya Yb'j cb
@]YVYž'A UW\h'i bX'_fYUh]j Ya 'GW\UZZYbgXfUb['Ub"'K Yf'g]W\'ZØf'X]Y
_i `hi fY``Yb'i bX'[YgY``gW\UZh`]W\Yb'GhfÒa i b[Yb'X]YgYf'NY]h
]bhYfYgg]Yfhž'gc``hY'g]W\'X]Y'5i gghfU\`i b['XYg':]`a g'b]W\h
Ybh[Y\Yb'`UggYb"

8 Y hU]`g	
Cfh	K]Ybž ² ghYffY]WX
EiY``Yb	• k k k "fUX]c\cW\gh]Zh"XY
	• k k k "gfZ"W
	• g]hYg"dgi "YXi

6 Ygi W Yb 'G]Y 'i bg 'Ui Z 'a Y]b!k]Yb "b Yh