

Aig]WU` @ibUg`bYiY': fYibXY . H]YfgW\ihn``]jY']b'?cbghUbn'Yf`YVYb°



K c``a Uh]b[Yf'<U``Yž'GWk U_YhYbghfU»Y'' %ž'+, (*+?cbghUbnž'8Yi hgWk`UbX'!5a '%- "ibX'&\$"'**`]'&\$&) 'Z]bXYh']a

F U\a Yb'XYf'A i g]_! + bgY``]b'?cbghUbn'XUg'a]h'GdUbbi b[
Yfk UfhYhY'A i g]WU` @ bUg'bYi Y': fYi bXY 'ghUhh''8]Yg'VYf]WkhYh'

GYYa cn"'8]Y'JYfUbghU`hi b['k]fX'jcb'%(\$'5_hYi fi]bbYb']a '5`hYf
jcb'('V]g'ØVYf', \$'*J\fYb'[YhfU[Yb'i bX'\Uh'XYb'H]YfgWki hn']a
:c_i g"'8Ug'A i g]WU`ž'XUg'jcb'BUX'U'5XUa 'i bX'XYf' 5ZZYbVUbXY
]bg'@YVYb'[Yfi ZYb'k i fXYž'YfnÀ\`h'X]Y'VYk Y[YbXY'; YgWk]WkhY'XYf
< ØbX]b'@ bUž'X]Y'bUWk'XYa 'JYf'i gh']\fYf'A YbgWkYbZUa]`]Y
UbXYfY'H]YfY'i bX'XYfYb'@YVYbgVYX]b[i b[Yb'_YbbYb`Yfbh''8Ug
GhØW_']gh'HY]``Y]bYf'HfUX]h]cbz']b'XYf'A\f`]Wk'Y]b
gY'Vgh[YgWkf]YVYbYg'?]bXYfa i g]WU`ni 'Y]bYa 'j cb'XYb'?]bXYfb
[Yk A\`hYb'H\Ya U'Ui Z[YZØ\fh'k]fXz'k]Y'j Yf[Ub[YbY'K Yf_Y'ØVYf

 $8]Y' < Ui dh[fi ddY'XYg'A i g]WU`g'VYghY\h'Ui g'%) ?]bXYfb']a '5`hYf j cb', 'V]g'%('$U\fYbž'X]Y'U_h]j ']b'X]Y'H\Ya Ybk U\`ž'X]Y'FYWXYfWXY i bX'X]Y'9fghY``i b['Y]bYf'_]bX[YfYWXhYb'; YgWX]WXhY'Y]bVYnc[Yb k i fXYb''8]Y'DfcXi nYbhYb'\UVYb'U``Yg']b'9][YbfY[]Y'i a [YgYhnhž j cb'8fY\Vi WX'i bX'A i g]_'V]g'\]b'ni '?cghØa Yb'i bX'D`U_UhYb'' 6YgcbXYfg'ghUf_']gh'XUg'9b[U[Ya Ybh'XYf'A i g]_!<math>$$ bgY`ž'X]Y'g]WX b]WXh'bi f'Xi fWX']\fY'\$U\fYgdfc'Y_hY'\Yfj cf\YVhž'gcbXYfb'Ui WX Xi fWX'X]Y'I bhYfghØhni b['j YfgWX]YXYbYf'Gh]Zhi b[Yb'k]Y'XYf FY]b\c`X'6Y]h']WX'Gh]Zhi b[ž'k Ug'X]Y'6YXYi hi b['XYf'5fVY]h j YfXYi h`]WX'h''

9]b i a ZUggYbXYg Dfc Y_h

8]Y `A i g]_! \Rightarrow gY` `Zi bhYf` XYf`@Y]hi b['j cb'BUX'U'5XUa `Z'Vf]b[h `Ub['À\f][Y'9fZU\fi b['i bX'j]Y`gY]h][Y'? ca dYhYbnYb'a]h''`G]Y']gh A]h[`]YX']a 'J YfVUbX' XYf'ZfY]Yb'A i g]_gW\i `Yb'i bX'gY]h'\&\\$\%\@VYf X]Y'? Øbgh`Yfgcn]U`_UggY'UV[Yg]W\Yfh'' 5XUa 'Yf\]Y`h'ZØf']\fY 9b[U[YaYbhg'[`Y]W\'XfY]'DfY]gY'VY]a '< Y`ZYf\YfnYb 9b[U[YaYbhdfY]g\Z'k Ug']\fYb'\c\Yb'GhY``Ybk Yfh']b'XYf'; YaY]bXY i bhYfghfY]W\h''BYVYb'XYa'A i g]\WJ`dfc'Y_h'Yb[U[]Yfh'g]\W\'X]Y A i g]_! \Rightarrow gY`']b'j Yfg\W]YXYbYb'? ccdYfUh]cbYb'a]h'gh\AXh]g\W\Yb 9]bf]\W\hi b[Yb'k]Y'XYa'@UbXfUhgUah'i bX'Cf[Ub]gUh]cbYb'k]Y B561 ii bX'I B=79:"

8 Y hU] `g ni f 5 i ZZØ\ fi b[

8]Y '5i \mathbb{Z} Ø\fi b['Z]bXYh']b 'XYf'K c``a Uh]b[Yf'<U``Yž GWk U_YhYbqhfU» Y'' %ž'+, (* + '?cbqhUbn!K c``a Uh]b[Yb'qhUhh"'8]Y

9]b VYgcbXYfYg'<][\`][\hi]gh'XUg'Jcfdfc[fUa a ž'XUg'Y]bY'Ghi bXY j cf'6Y[]bb'XYf'5i ZZØ\fi b['a]h'5_h]cbgghÀbXYbž'Hca Vc`U'gck]Y GdY]gYb'i bX'; YhfÀb_Yb'Ui Zk UfhYh"'8]YgYg'9b[U[Ya Ybh'nYi [h b]Wkh'bi f'j cb'XYf'?fYUh]j]hÀh'XYf'HY]`bY\a Yfž'gcbXYfb'Ui Wk'j cb XYf'JYfV]bXi b['XYf'; Ya Y]bXY'a]h'_i `hi fY``Yb'i bX'gcn]U`Yb H\Ya Yb"

Ni gUa a Yb [YZUggh` Àggh'g]W `ZYgh\ U`hYbž'XUgg` @ bUgʻbYi Y : fYi bXY `Y]b`k]W\ h][Ygʻ9j Ybh']b`XYf'_i `hi fY``Yb`GnYbY'j cb ? cbghUbn`XUfghY``hii bX`[`Y]W\ nY]h][`Ui Z`VYXYi hYbXY [YgY``gW\ UZh`]W\ Y`H\ Ya Yb`Ui Za Yf_gUa `a UW\ h"`8]Y` \Rightarrow]h]Uh]j Y`XYf A i g]_! \Rightarrow gY``nY][hž'k]Y`A i g]_'i bX`H\ YUhYf`ni f`: ÒfXYfi b['j cb H]YfgW\ i hn`i bX'; Ya Y]bgW\ UZhg[Y]gh`VY]hfU[Yb`_ÒbbYb" \Rightarrow Zcfa Uh]cbYb`ØVYf`X]Y`A i g]_! \Rightarrow gY``Z]bXYb`g]W\ `Ui W\ `Ui Z`XYfYb c\Z]n]Y``Yf`K YVg]hY`A i g]_! \Rightarrow gY`"

8 YhU]`g	
Cfh	K c``a Uh]b[Yf' <u``yž'gw\ku_yhybghfu»y'' %ž<="" td=""></u``yž'gw\ku_yhybghfu»y''>
	+, (* + '?cbghUbnž'8Yi hgWX`UbX
EiY``Yb	• k k k "gYYa cn"XY
	k k k "a i g]_!]bgY`!_cbghUbn"XY

6Ygi WXYb G]Y i bg Ui Z Y]bY!fY]gY "XY