

6i bXYgj YfZUggi b[g[Yf]W\h'YbhgW\Y]XYh. JYfUbhk cfhi b[ZØf F Ua ghY]b!8fc\bYb3

Nk Y] $\not\exists$ a Yb]hYb __`U[Yb '8 Yi hgW\ `Ub X 'k Y[Yb 'I G! 8 fc \bYbUb[f]ZZYb ']a ' $\not\exists$ a Yb 'Ub/'6i bXYgj YfZUggi b[g[Yf]W\ h YbhgW\ Y]XYh \not ØVYf 'A]hj YfUbhk cfhi b["



F Ua ghY]bž·F\Y]b`UbX!DZU`nž·8 Yi hgWX`UbX`!'\dag{b}\Y]bYf`U_hi Y``Yb i bX`Vf]gUbhYb`9bhk]W_`i b[`\UVYb`nk Y]\Aa Yb]hYb`?`U[Y`[Y[Yb X]Y`6i bXYgfY[]Yfi b[`Y]b[YfY]W\h"'<]bhYf[fi bX`g]bX`I G!

8 fc\bYbUb[f]ZZYžX]Y`&\$\%\]a \aa Yb`ghUhhZUbXYb`i bX`VY]`XYbYb

5 b[Y\Of][Y`XYf'?`À[Yfž`XUfi bhYf`Y]b`DfYX][Yfii bX`Y]b`Dc`]n]ghž
i a g`@YVYb`_Ua Yb"\8]Y`?`U[Y`VY`Yi W\hYhX]Y`Fc``Y`XYf`I G!

A]`]hÀfVUg]g`FUa ghY]bž`X]Y`YbhgW\Y]XYbX`ZØf`X]Y`GhYi Yfi b[`X]YgYf

8 fc\bYbUb[f]ZZY`]gh"`OHU[YggW\Ui QVYf]W\hYhž`XUgg`X]Y`?`À[Yf

Uf[i a Ybh]YfYbž`X]Y`I G5`j Yfgh]Y\aa Jh`X]YgYb`9]bg\hmYb`[Y[Yb

XUg`J O`_YffYW\hž`]bXYa g]Y`b]W\h'Ui gfY]W\YbX`nk]gW\Yb`N]j]`]ghYb
i bX`HYffcf]ghYb`i bhYfgW\Y]XYb"

8]Y'?`U[Y']gh'b]W\h'bi f'Y]b'k Y]hYfYf'GW\f]hh']b'Y]bYa 'nY\b'\A\f][Yb

FYW hgghfy]hz gcbXYfb _ObbhY Ui W k Y]hfY]W YbXY dc `]h]gW Y c `[Yb \ UVYb "8 Ug 6i bXYgj YfZUggi b[g[Yf]W h ghY \ h bi b 'j cf XYf < YfUi gZcfXYfi b['ni 'YbhgW Y]XYbz c V X]Y 6i bXYgfY[]Yfi b['Y]bY GW i hnd Z]W h [Y[YbØVYf XYf Ya Yb]h]gW Yb 6Yj O`_Yfi b['\Uh" ?f]h]_Yf k YfZYb XYf XYi hgW Yb F Y[]Yfi b['j cfz g]Y gY] Xi fW X]Y 9f`Ui Vb]g ni f`Bi hni b['j cb F Ua ghY]b a]hj YfUbhk cfh`]W ZØf X]Y hOX`]W Yb 5b[f]ZZY "OBYi hgW `UbXZi b_QghY``h'X]Y : fU[Yz]bk]YZYfb 8 Yi hgW `UbX ZØf X]Y I bhYfghØhni b['XYf I G!Ua Yf]_Ub]gW Yb A]`]hAfghfUhY[]Y]b ¾a Yb ni f`J YfUbhk cfhi b['[Ync[Yb k YfXYb_Ubb"]

FYWXh`]WXY': fU[YghY``i b[Yb'i bX'dc`]h]gWXY JYfUbhk cfhi b[

8]Y'6i bXYgfY[]Yfi b['k Y]gh'j cfYfgh'Y[']WXY'J YfUbhk cfhi b[
ni fØW_'i bX'Uf[i a Ybh]Yfhž'XUgg'X]Y'hYWXb]gWXY'K Y]hYf'Y]hi b['j cb
GhYi Yfi b[gXUhYb'Ui g'F Ua ghY]b'_Y]bY'GWXi hndZ]WXh'[Y[YbØVYf
XYb'CdZYfb']a '*\a'a Yb']a d']n]YfY"'; 'Y]WXnY]h]['VYhYi Yfh'g]Yž'XUgg
g]Y'j cb'GY]hYb'XYf'I G5'Ni g]WXYfi b[Yb'Yf\]Y'hž'k cbUWX'X]Y'I G!
GhfY]h_fÀZhY'[Y'hYbXYg'FYWXh'Y]b\U'hYb"'8cWX'X]YgY
5f[i a YbhUh]cb'_ObbhY'[YZÀ\f`]WX'k YfXYbž'k Ybb'XUg'; Yf]WXh'g]WX
YbhgWXY]XYhž'XYb'?'À[Yfb'fYWXh'ni '[YVYb"'OHU[YggWXUi Q
VYf]WXhYhž'XUgg'XUg'; Yf]WXh'XYf'Dc']h]_']b'XYf'JYf[Ub[Yb\Y]h
Y]bYb'k Y]hYb'Gd]Y`fUi a ']b'Ui a Yb!'i bX'g]WXYf\Y]hgdc']h]gWXYb
: fU[Yb'ni [YghUbXYb'\Uh"

5a bYghm' +bhYfbUh]cbU``\Uh'VYfY]hg'Ui Z'X]Y'DfcV`Ya Uh]_\\]b[Yk]YgYb'i bX'_f]h]g]Yfhž'XUgg'X]Y'6i bXYgfY[]Yfi b[a Ò[`]W\YfkY]gY'k]ggYbh`]W\'ni f'6Y]\]'ZY'Ub'j Ò`_YffYW\hgk]Xf][Yb I G!8fc\bYbUb[f]ZZYb'VY]hfÀ[h"'+b']\fYa '6Yf]W\'h'VYhcbh'5a bYghmž XUgg'Ui W\'XYi hgW\Y'; Y\Y]a X]Ybgh]bZcfa Uh]cbYb'ni 'gc`W\Yb 9]bgÀhnYb'VY]hfU[Yb'_ObbhYbž'k Ug'X]Y'fYW\h`]W\Y'JYfUbhk cfhi b[kY]hYf'_ca d`]n]Yfh"'Oba bYghmQZcfXYfhj cb'XYf'6i bXYgfY[]Yfi b[ž_`UfY'A U» bU\a Yb'ni f'JYfa Y]Xi b['gc`W\Yf'j O`_YffYW\hgk]Xf][Yf 6Y]\]'ZYb'ni 'Yf[fY]ZYb"

GWk YfYf'Jcfk i fZ'i bX'ÒZZYbh`]Wk Y

8]g_i gg]cb

 $8]Y ??`U[Y'j cf'XYa '6i bXYgj YfZUggi b[g[Yf]Wkh'_ObbhY'U`gc'XYf 5i g`OgYf'ZØf'Y]bY'h]YZ[fY]ZYbXY'5i gY]bUbXYfgYhni b['ØVYf 8 Yi hgWk`UbXg'Fc``Y']b']bhYfbUh]cbU`Yb'?cbZ]_hYb'gY]b"'5a '%) "'<math>\Rightarrow$ `] &\$&) ']gh'Yg'bi b'Ub'XYf' \Rightarrow gh]nž'Y]bYb'K Y['Xi fWk'X]YgYb fYWkh`]WkYb'i bX'Yh\]gWkYb'8gWki b[Y`ni 'Z]bXYbž'i bX a $O[`]WkYfk Y]gY'ni '_`AfYbž'cV'g]Wk'X]Y'XYi hgWkY'FY[]Yfi b['Y]bY A]hj YfUbhk cfhi b['ZØf'X]Y'; YgWkY\b]ggY']a '<math>\Rightarrow$ 'a Yb'Ui ZUXYb a i gg"

8 YhU]`g	
Cfh	FUa ghY]bžF\Y]b`UbX!DZU`nž8Yi hgWX`UbX
EiY``Yb	• k k k "hU[YggWXUi "XY
	kkk"XYihgW\`UbXZib_"XY
	• k k k "Ua bYghm"XY

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