

BYi Yf '5 bgUhn']b'?]Y`.'9fbÀ\fi b['_ÒbbhY 798!DUh]YbhYb'\Y`ZYb'

?]Y`Yf`: cfgW\Yf`XYf`75I `i bX`I ?G< `i bhYfgi W\Yb GhcZZk YW\gY`ghÒfi b[Yb`VY]`798 `i bX`YfZcfgW\Yb`]bX]j]Xi Y``Y 9fbÀ\fi b[gh\YfUd]Yb"



?]Y`ž'8 Yi hgWX`Ub X`!:7\fcb]gWX!Yb hnØbX`]WXY

8 Ufa Yf_fUb_i b[Yb`ff798 Łk]Y`A cfVi g`7fc\b`i bX`7c`]h]g`i `WYfcgU
ghY``Yb`Y]bY`Yf\YV`]WXY`< YfUi gZcfXYfi b[`]b`XYf`a cXYfbYb

A YX]n]b`XUf"'8]YgY`9f_fUb_i b[Yb`ZØ\fYb`ni `Gma dhca Yb`k]Y

8 i fWX ZU``ž':]YVYfž'GWX a YfnYb`i bX`dgmWX]gWXYb`6Y`Ughi b[Yb"'9]bY
U_hi Y``Y`Ghi X]Y`Y]bYg': cfgWXi b[ghYUa g`XYf`7\f]gh]Ub!5`VfYWXhg!
I b]j Yfg]hÀh`ni `?]Y``ff751 Łi bX`XYg`I b]j Yfg]hÀhg_`]b]_i a g

GWX`Ygk][!<c`ghY]b`fI ?G<Ł'\Uh'Y]bYb`YbhgWXY]XYbXYb`: U_hcf
]XYbh]Z]n]Yfh`XYb`[YghÒfhYb`GhcZZk YWXgY`nk]gWXYb`XYa `? ÒfdYf
i bX`XYa `A]_fcV]ca `XYf`DUh]YbhYb"`8]Y`9f[YVb]ggY`k i fXYb`]b`XYf
: UWXnY]hgWXf]Zh`B Uhi fY`7ca a i b]WUh]cbg`j YfÒZZYbh`]WXhž'k cVY]

ZYgh[YghY``h`k i fXYž`XUgg`bi f`Y]b`HY]``XYf`DUh]YbhYb`Ui Z
_cbj Ybh]cbY``Y`a YX]_Ua YbhÒgY`H\YfUd]Yb`Ubgdf]WXh"

; Ya À» XYf 6Yf]W hYfghUhhi b['j cb 'DfYW]g]cb 'A YX]W]bY k i fXYb 'Ghi \`!' i bX'6`i hdfcVYb 'j cb '798!DUh]YbhYb'j cf'i bX'bUW H\YfUd]YVY[]bb 'i bhYfgi W h" '9g 'nY][hY 'g]W 'Y]bY 'XfUa Uh]gW fYXi n]YfhY 'Ghc ZZk YW gY`U_h]j]hÀh']a '8 Ufa [Yk YVY'i bX']a A]_fcV]ca 'XYf'DUh]YbhYbž'k Ug 'ni 'Y]bYa 'Ni gUa a YbVfi W 'XYf a YhUVc`]gW Yb 'K YW gY`k]f_i b[Yb 'nk]gW Yb 'K]fh'i bX'A]_fcV]ca ZØ\fhY" '6YgcbXYfg'Ui ZZÀ``]['k Uf'X]Y 'J Yfa]bXYfi b['k]WXh][Yf Ghc ZZk YW gY`dfcXi _hY'k]Y 'Hfmdhcd\Ub'i bX'7\c`]b']a '6`i hž'X]Y 'ZØf X]Y 'DfcXi _h]cb'j cb'B58'i bX'5HD'j cb'6YXYi hi b['g]bX"

8]Y'Fc``Y'XYg'A]_fcV]cag

8 Ugʻ8 Ufa a]_fcV]ca žʻXUgʻ[fÒ» hYʻA]_fcV]ca ʻXYgʻA YbgWXYbž gd]Y`h'Y]bYʻYbhgWXY]XYbXYʻFc``YʻZØfʻX]Yʻ; Ygi bX\Y]hʻXYgʻ8 Ufa gʻʻ@Ui hʻxi fbU`a YXžʻVYY]bZi gghʻX]YʻNi gUa a YbgYhni b[ʻXYf 8 Ufa a]_fcV]chUžʻX]YʻUi gʻY]bYfʻJ]Y`nU\`j cbʻA]_fcVYbʻVYghY\hž ghUf_ʻX]YʻU``[Ya Y]bYʻ; Ygi bX\Y]hʻʻ8 mgV]cgYžʻY]bʻI b[`Y]WX[Yk]WXh]bʻXYfʻA]_fcV]chUžʻ_Ubbʻni ʻYf\Ò\hYbʻ9bhnØbXi b[Ybʻi bXʻUbXYfYbYfbgh\UZhYbʻ; Ygi bX\Y]hgdfcV`Ya YbʻZØ\fYbʻʻ9]bYʻ[Ygi bXY9fbÀ\fi b[ʻ_UbbʻbØhn`]WXYʻ6U_hYf]YbʻZÒfXYfbžʻX]YʻX]Yʻ\DhY[f]hÀhXYfʻ8 Ufa VUff]YfYʻUi ZfYWXhYf\U`hYbʻi bX`XUgʻ\aa a i bgmghYa i bhYfghØhnYbʻʻ

8]Y'Ghi X]Y'Ui g'?]Y``\Uh'Ui W\'[YnY][hž'XUgg'X]Y']bX]j]Xi Y``Y
9fbÀ\fi b['Ub'6YXYi hi b['[Yk]bbh"'7ca di hYfa cXY``Y'XYi hYb
XUfUi Z'\]bž'XUgg'[Yn]Y`hY'9fbÀ\fi b[gUbdUggi b[Yb'XUg
A]_fcV]ca 'dcg]h]j 'VYY]bZi ggYb'i bX'YbhnØbXi b[gZÒfXYfbXY
DfcnYggY'VfYa gYb'_ObbhYb"'¾XcW\'k i fXY'_Y]bY'i b]j YfgY``Y'8]Àh
ZØf'U``Y'DUh]YbhYb']XYbh]Z]n]Yfh/'j]Y`a Y\f'a i gg'X]Y'9fbÀ\fi b[
]bX]j]Xi Y```Ub[YdUggh'k YfXYbž'i a 'cdh]a U`Y'9f[YVb]ggY'ni
Yfn]Y`Yb"

$H\YfUdYih\]gWXY'9bhk\]W_`ib[Yb'ibX$ 5 i $gV`]W_$

8]Y 'XYfnY]h][Y '6Y\UbX`i b['j cb '798 'n]Y`h'j cfk]Y[YbX'Ui Z'XUg \Rightarrow a i bgmghYa 'UVž'k Ug'b]W\h']a a Yf'j cb '9fZc`['[Y_f\Obh']gh''8]Y '

DZcfa Uh]cbYb'j cb'a Y]b'@YVYb'a]h'798'nY][Ybž'XUgg'798b]W\h'\Y]`VUf']ghž'YXcW\[]Vh'Yg'YZZY_h]j Y
6Y\UbX`i b[ga Ò[`]W_Y]hYbž'i a 'X]Y'@YVYbgei U`]hÀh'ni
j YfVYggYfb"' D'XYf'GW\k Y]n'`YVYb'gW\Ahni b[gk Y]gY'&) "\$\$\$
A YbgW\Yb'a]h'Y]bYf'798ž'k cVY]'X]Y'\Ài Z][ghYb': cfa Yb'A cfVi g
7fc\b'i bX'7c`]h]g'i `WYfcgU'g]bX"

8]Y'bÀW\ghY'D\UgY'XYf': cfgW\ib['n]Y`h'Ui Z'@UVcfi bhYfgi W\ib[Yb UVži a 'gdYn]Z]gW\Y'H\YfUd]Yb'ni 'Ybhk]W_Y`b"'5_hi Y``'ghY\Yb'X]Y ?ca V]bUh]cb'j cb'A YhU[Ybca]_ž'HfUbg_f]dhca]_ž'A YhUVc`ca]_ i bX'BYhnk Yf_UbU`mgYb']a ': c_i gži a 'Y]b'VYggYfYg'J YfghÀbXb]g XYf'a YhUVc`]gW\Yb'J YfAbXYfi b[Yb'VY]'798!DUh]YbhYb'ni gW\UZZYb"'8Yf'Ni [Ub['ni ']bX]j]Xi Y``Yb'9fbÀ\fi b[gghfUhY[]Yb_ObbhY'Y]b'j]Y'j YfgdfYW\YbXYf'5bgUhn'gY]bži a 'X]Y'9f_fUb_i b['Ub[Zf]gh]['ni 'VYY]bZi ggYb'i bX'X]Y'@YVYbgei U`]hÀh'XYf 6YhfcZZYbYb'ni 'j YfVYggYfb"

8 YhU]`g	
J c f ZU``	; Ygi bX\Y]hg_f]gY
Cfh	?]Y`ž'8Yi hgW\`UbX
EiY``Yb	k k k "dfYW]g]cba YX]W]bY"XY
	• k k k "′ci fbU`a YX"XY
	a Y]b!`YVYb!a]h!V\(\forall X\)"V\\

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