

K Ufi a 'di a dh'XYf'5D=' !?fmdhc3



- 8Yf'DfY]g'j cb'5D='\Uh'g]W\']b'&('Ghi bXYb'i a ') * ž) |
 [Ygh]Y[Yb'i bX'g]W\'Y]bYa 'gW\'YddYbXYb'A Uf_h
 k]XYfgYhnh"
- 8]Y 'Y]b n][Ufh][Y 'C fUWY '! @Ògi b ['j cb '5 D = ž'X]Y 'A]XX `Y k UfY gW b Y]X Y hž'V]Y hY h'B UW \ U `h][_Y]h"
- A ccbk Y```k YWkgY`hY'j cb'7\U]b`]b_'ni '5D=' i bX'nY][hY Y]bY'k UWkgYbXY'5_nYdhUbn"

8 Yf'DfY]ggWi V'j cb'5D='\Uh'X]Y'5i Za Yf_gUa _Y]h'j cb'<\AbX`Yfb i bX'5bU`mghYb'[`Y]WXYfa U» Yb'YffY[h"Ni a 'NY]hdi b_h'XYf'DfYggY k Uf'XYf'Ud]' 'XYnYbhfU`Y'CfUWY'!D`UhhZcfa '!Hc_Yb']b'X]Y'<\O\Y [YgWXcggYb'i bX']b'bi f'&('Ghi bXYb'i a ') * ž)ı '[Ygh]Y[Ybži a 'VY] \$ž-), +'I G8'ni '\UbXY`b"

A]h'Y]bYf'A Uf_h_Ud]hU`]g]Yfi b['j cb'%%(ž&) 'A]``]cbYb'l G'!8c``Uf i bX'YfghUi b`]W\Yb'< UbXY`gj c`i a Yb'j cb'' (\$ž&, 'A]c"'l G8'hfchnh 5D='Y]bYa 'gW\`YddYbXYb'VfY]hYfYb'?fmdhc'!A Uf_hž'Ui Z'XYa F]YgYb'k]Y'6]hWc]b'fbH7 \pm 'i bX'9h\YfYi a 'f \mathbb{P} H< \pm 'i bhYf',) "\$\$\$'l G8 i bX'&"\$\$\$'l G'!8c``Uf'V`Y]VYb"

8]YgY`VYa Yf_Ybgk YfhY`5D=``!DfY]gdi a dYžX]Y`bUW\`Y]bYa 5bgh]Y[`jcb`'*ı `Ua `%+"`A Àfn`[Ya Y`XYh`k i fXYž'k]fZh`X]Y`: fU[Y Ui Z`K Ug`hfY]Vh`XYb`a YhYcf]gW\Yb`5i Zgh]Y[`jcb`5D=`Ub3

8]Y 'Y]b n][Ufh][Y 'C fUWY '! @Ògi b['j cb '5 D =' [Yk]b b h 'HfU_h]c b 'Ub

=a '?Yfb'VYZUggh'g]W\'5D=' 'Ui Z'Y]bYb'_f]h]gW\Yb'GW\a Yfndi b_h']b XYf'6`cW_W\U]b!HYW\bc`c[]Y.'JYfV]bXYb'j cb']bhY``][YbhYb JYfhfÀ[Yb'a]h'ni jYf`Àgg][Yb'fYU`Yb'8UhYb"

a 'GYdhYa VYf'&\$&\$ a]h'Y]bYa 'K \]hYdUdYf'i bX']a '8YnYa VYf a]h'Y]bYa 'Hc_Yb'!JYf_Ui Zž'XUg'nY\b'A]``]cbYb'Ub[Y\cVYb'\Uhž Yfa Ò[`]W\h'5D='5D=!5bV]YhYfbž']\fY'Y][YbYb'?bchYb'ni VYhfY]VYbž'k cXi fW\'_cghgd]Y`][Y'i bX'nYbhfU`Y'A]XX`Yk UfY'k]Y\Yf_Òa a `]W\Y'CfU_Y``Ui g[YgW\b]hhYb'k]fX"'8]YgY' ⊕bcj Uh]cb'U`g 6`cW_W\U]b'CfUWY'DfcV`Ya '!@Ògi b['k]fX'Xi fW\'gY]b'C9J!BYhnk Yf_'j YfghÀf_hž'XUg'XYb'a UI]a U`Yb'GW\i hn'XYg YI hfU\]YfVUfYb'K Yfhg'fA 9J Ł'Y]bZØ\fh"

8 i fWX 'X]Y 'J YfghY][Yfi b['j cb'C fUWY '!I dXUhYg'i bX 'XYf I a j YfhY]`i b['j cb', \$1 'XYg'9f`ÒgYg'U`g'6Y`c\bi b[Yb'Ub'85ddg gWX UZZh'5D= 'Y]b'bUWX\U`h][Yg'9]bbU\a Ya cXY``ž'XUg'X]Y'? ÒdZY XfY\h"'6Y]hfÀ[Y'ni 'L '\YVYb'X]YgY': i b_h]cb'\Yfj cfž'k cVY] 6Ybi hnYf']a ': YVfi Uf'Y]bYb'I a gUhn'j cb'(("\$\$\$'I G'!8c``Uf'i bXY]bY'@UbXYVU\b'j cb'a Y\f'U`g'%\$'\\\fYb'ZYghghY``Ybž'k Ug'Y]bYa fcVi ghYb'; YgWXÀZhga cXY```g][bU`]g]Yfhž'XUg'XYf'FYbhUV]`]hÀh bU\Yni ']gh"

 $5 \times cdh]cb^{-}]gh^{-}Y]b^{-}k^{-}Y]hYfYf^{-}k^{-}]Wh][Yf^{-}HfY]VYf^{-}8Yf^{-}8Yf^{-}0b^{-}[ghYK-YWh]gY^{-}j^{-}cb^{-}A^{-}ccb^{-}k^{-}Y^{-}j^{-}cb^{-}7^{-}U]b^{-}]b^{-}ni^{-}5D^{-}j^{-}cb^{-}A^{-}ccb^{-}k^{-}Y^{-}j^{-}cb^{-}7^{-}U]b^{-}]b^{-}ni^{-}5D^{-}j^{-}cb^{-}A^{-}ccb^{-}k^{-}Y^{-}j^{-}cb^{-}7^{-}U]b^{-}]b^{-}ni^{-}5D^{-}j^{-}cb^{-}A^{-}ccb^{-}k^{-}Y^{-}j^{-}cb^{-}7^{-}U]b^{-}]b^{-}ni^{-}5D^{-}j^{-}cb^{-}A^{-}ccb^{-}k^{-}Y^{-}j^{-}cb^{-}A^{-}ccb^{-}k^{-}A^{-}ccb$

 $= a \ ; \ Y[YbgUhn'ni \ '7 \ U]b@]b_'V]YhYb'X]Y'XYnYbhfU`Yb'5D= \\ !: fUa Yk cf_'i bX'A 9J !!GWki hn'j cb'5D=' Y]bY'ØVYfnYi [YbXY 5`hYfbUh]j Yž']bgVYgcbXYfY'k Ybb'6`cW_WkU]b'!5bk YbXi b[Yb']b \\ 8 YZ]'i bX'Gi dd`m'7 \ U]b'A UbU[Ya Ybh'Yfk Y]hYfh'k YfXYb''A]h \\ &' "*' $' $b \ UVYfb'i bX'Y]bYa 'n]f_i `]YfYbXYb'5b[YVch'j cb'%, <math>\rlap/z$ % A]``]cbYb'j cb'%($+ \rlap/z$ *) 'A]``]cbYb'Hc_Yb'g]bX'X]Y'; fi bX`U[Yb'XYg Dfc'Y_hg'a]h'XYf'A Uf_hYbh\i g]Uga i g'ØVYfY]bgh]a a Yb'i bX'X]Y 5i Zk ÅfhgVU\b'VYZYi Yfb"

5=D' DfY]gj cf\YfgU[Y

6Ya Yf_Ybgk YfhYfk Y]gY`nY][h'XYf'&(!Ghi bXYb!6YfY]WX`j cb \$ž*\$\$+`I G8`Ui Z'%ž\$' `I G8ž'j YfVi bXYb`a]h'Y]bYa `g]YVYbhÀ[][Yb ; Yk]bb`j cb`+, ž, ı ž`]bhYbg]j Y`gdY_i `Uh]j Y`@Y]XYbgWXUZh"

 $5bU`mghYb`gY\Yb`5D='U`g`Y]bYb`&$&) '!5bk ÅfhYf`i bX`dchYbn]Y`` a]h`XYf`?YhhYb`]b_"'8Yf`FØW_[Ub['jcb'-$ž)ı '[Y[YbØVYf`Y]bYa 5``nY]h\cW\'jcb'%$ž $`I G8`]a '5df]``&$&%``Åggh`K UW\ghi a 'FUi a ž k Å\fYbX`Y]b`ghØbX`]W\Yf'; Yk]bb'jcb'(ž-ı 'i bX`Y]b'a cbUh`]W\Yg 5bgh]Y[gg][bU``jcb', ž)ı 'Y]b'Ub\U`hYbXYg'<math>\Rightarrow$ hYfYggY"

 $\pm 0.XYf'hÅ[`]WXYb'HUVY``Y'ghY][h'XYf'FY`Uh]j ghÅf_Y'! \pm 0.XYI'! \pm 0.X] _Uhcf fFG \pm 0.4XCWX ghYh]['ghYh]['VY]'** Z', '_bUdd'''Dib_hYb'ibhYf\U`VXYf'ØVYfVYhVUfYb'FY[]cb"'8]Yg'VYXYihYhz'XUgg'XUg'Hc_Yb'ZØfY]bYb'FØW_ni['UiZ'XYb'KY['[Y\Yb'_ObbhY"]$

CVk c\`F]g]_Yb'k]Y'X]Y'ØVYf_cghYhYb'6YX]b[ib[Yb'UiZhfYhYbžYf\AihYfb'X]Y']bbcjUh]jYb'HYW\bc`c[]Yž'X]Y'5Xcdh]cbga ca Ybhi a ibX'XUg'A Uf_h'ZØf'XUg'A Uf_hž'XUg'j cb'XYf'A Uf_hgh]a a ib[k]YXYf\c`h'k]fXž'k Ufi a 'Yg'Yhnh'di a dh''A]h'ni bY\a YbXYa 6`cW_W\U]b'!JYfhfUiYb'_ObbhY'X]Y'dfU_h]gW\Y'@Ogi b['j cb'5D='g]Y]a 'FUa dYb`]W\h'\U`hYb"

HY]`Yb`G]Y`X]YgYb`5fh]_Y`
?UhY[cf]Yb
HU[g
EiY``Y. '7c]b`]gh"a Y

8 Y hU]`c

6 Ygi WX Yb 'G]Y 'i bg 'Ui Z. 'b!U["X Y