

GhUf_Yf'GU]gcbghUfh'ZØf'9fn[YV]f[Y'5iY. 7`UigYb'ZY]Yfh'YfghYb'HfYZZYf

 $9fn[YV]f[Y'5iY'ghUfhYh'ghUf_']b'X]Y'GU]gcbž'HfU]bYf'8chWXYjaUVbh'nif'Jcfg]WXh'bUWX'nkY]'G]Y[Yb'''7`UigYb'ZY]Yfh'YfghYbHfYZZYf''$

8]Y'U_hi Y``Y'GU]gcb']b'XYf'8f]hh`][Uk Y`h'XYg':i»VU``g'Vf]b[h'Y]bY K Y``Y'XYf'9fbYi Yfi b['i bX'XYg'cdh]a]gh]gWXYb'5i ZVfi WXg'a]h g]WX"'6YgcbXYfg'X]Y'A UbbgWXUZh'j cb'9fn[YV]f[Y'5i Y'nY][h Y]bXfi W_gj c``ž'XUgg'BYi ni [Àb[Y'i bX'Y]b'ghUf_Yg'HYUa [YZØ[YYbhqWXY]XYbX'ZØf'XYb'9fZc`[']b'XYf'@][U'gY]b'_ÒbbYb"

9fZc`[fY]WXYf'GhUfh']b'X]Y'GU]gcb

BYiYHU`YbhYX]YXUgHYUaVYfY]WXYfb

9]b Ui ZZÀ``][Yf B Yi ni [Ub [']gh A]_U 7 `Ui gYbž XYggYb 'YfghYf Dfc Z][c `ZY 'X]Y 'Gh]a a i b [']a 'HYUa '\YVh" 8 Yf : `Ø[Y `gd]Y `Yfž XYf ni j cf j ca 'F Y[]cbU``][]ghYb : 7 'Gh" 'DUi `]' = Yb [U[]Yfh k i fXYž nY][hY 'gY]bY : À\][_Y]hYb ']b 'XYb 'V]g\Yf][Yb 'DUfh]Ybž k Ug ']\b 'ni Y]bYa 'k Yfhj c ``Yb 'A]h[`]YX 'XYg 'HYUa g a UW\h" '7 `Ui gYb 'gU[hY ']a \pm bhYfj]Yk . '8 Ug ']gh'Y]bYf 'XYf 'gW\ ÒbghYb 'A ca YbhY ']b 'a Y]bYa @YVYb "' \pm W\ '\UVY '`Ub [Y 'XUfUi Z'\]b [YUfVY]hYhž XUgg ']W\ '\]Yf 'gY]b

 $XUfZ'' = 8 YgY'dcg[h]j Y'9]bghY''i b['i bX'XUg'GY'VghVYk i gghgY]b'g]bX \\ [b'\c\Ya 'A U_"Y'Ui Z'X]Y'gWXbY''Y' + bhY[fUh]cb'XYf'bYi Yb'Gd]Y'Yf ni <math>f\emptyset W_n$ ni $Z\emptyset \fYb''$

GhUf_Yg'HYUa ž'ghUf_Y'@Y]ghi b[

8]Y ZfØ\Y: cfa 'j cb'9fn[YV]f[Y'5i Y']gh'b]W h'bi f'Ni ZU``žgcbXYfb XUg'9f[YVb]g'\UfhYf'5fVY]h'i bX'[i hYf'HYUa XmbUa]_" K]f'g]bX Y]b'YW hYg'HYUa 'i bX'gW cb'[i h'Y]b[Ygd]Y`h ž'Yf_`Àfh'7`Ui gYb" 8 chW Yj 'VYghÀh][h'X]YgY'9]bgW Àhni b[.' K]f'\UVYb'i bg'di b_hi Y`` j YfghÀf_hž'i bX'X]Y'bYi Yb'Gd]Y`Yf'\UVYb'g]W 'gW bY``'Ub[YdUggh" 8 Ug']gh'Y]b'NY]W Yb'ZØf'X]Y'Ei U`]hÀh'i bX'XYb'Ni gUa a Yb\U`h i bgYfYg'? UXYfg" '8]YgY'gc`]XUf]gW Y'5ha cgd\ÀfY'_ÒbbhY'g]W 'U`g YbhgW Y]XYbX'ZØf'XYb'k Y]hYfYb'J Yf`Ui Z'XYf'GU]gcb'\YfUi gghY``Yb"

5i gg]WX hYb 'Ui Z'gdUbbYbXY '6Y[Y[bib[Yb

A]h'Y]bYa 'VYgcbXYfg'Ui ZfY[YbXYb'Gd]Y`[Y[Yb'XYb 6i bXYg`][]ghYb'6cfi gg]U'A ÒbWXYb[`UXVUWX 'ghY\h'XYb'Gd]Y`Yfb j cb'8chWXYj 'Y]bY'gdUbbYbXY'<YfUi gZcfXYfi b['VYj cf"' 8 Ug']gh Y]b'Yl hfYa Yg'<][\`][\h ž'ZfYi h'g]WX'7`Ui gYb"'5i WX'XUg VYj cfghY\YbXY'8i Y``[Y[Yb'XYb'F]j U`Yb'8mbUa c'8fYgXYb j Yfgdf]WXhž'Y]b'GdY_hU_Y`ni 'k YfXYb"'8]Y': Ubg'_ÒbbYb'g]WX'Ui Z nk Y]'VYXYi hYbXY'Gd]Y`Y'ZfYi Ybž'X]Y'XUg'HYUa 'gck c\``Ui Z'U`g Ui WX'bYVYb'XYa 'D`Uhn'k Y]hYf'ni gUa a YbgWXk Y]»Yb'_ÒbbhYb"

8]Y'dcg]h]j Y'9]bgW\Ahni b['XYg'HfU]bYfg'i bX'X]Y'9fZc`[gV]`Ubn'XYf A UbbgW\UZh'XYi hYb'XUfUi Z'\]bž'XUgg'9fn[YV]f[Y'5i Y'Y]bY gdUbbYbXY'GU]gcb'Yfk UfhYh"'8]Y'\danklethY[fUh]cb'bYi Yf'HU`YbhYž'X]Y HYUa _c``Y[]U`]hAhi bX'X]Y'8Ya i h'_ÒbbhYb'XUVY]'X]Y YbhqW\Y]XYbXYb': U_hcfYb'ZØf'XYb'9fZc`['XYf'JY]`W\Yb'XUfghY``Yb"

GWX i ggZc [Yfi b[

 $8]Y `YfghYb `Gd]Y `Y `nY][Yb \check{z} `X Ugg `5 i Y `VYfY]h `]gh\check{z} `]b `X]YgYf `GU]gcb `Y]b \\ K `OfhW\ Yb `a]hni fYXYb "`K `A\ fYb X `X]Y `9 i d\ cf]Y `XYf `YfghYb `9fZc `[Y gd ØfV Uf `]gh\check{z} `[]`h `Yg `XYb b c W\ \check{z} `XYb `: c_i g `Ui Z `X]Y ``Ub [Zf]gh][Yb `N]Y `Y$

 $\label{eq:continuity} \mbox{ni `f]WhYb" 8 Yf K Y[`]gh`bcW\ ``Ub[ž`UVYf`X]Y`NY]WhYb`ghY\Yb`[i h ZØf`X]Y`A UbbgW\UZh`i bX`]\fY`Ua V]h]cb]YfhYb`6YghfYVi b[Yb"$

8 YhU]`g

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