

HÒX`]WXY'; Yk U`h'Ui Z'9]gYbVU\bghfU»Y. A Ubb'gh]fVh'bUWX '5b[f]ZZ']b'@Y]dn][

9g_U`Uh]cb`Ui Z'9]gYbVU\bghfU» Y`]b`@Y]dn][.`A Ubb`fl - Ł'gh]fVh bUW\'GhfY]h`]b`?`]b]_"'Dc`]nY]'gi W\h'Z \emptyset W\h][Y'HÀhYf"'; Yk U`h`]b ?f]a]bU`]hÀhggW\k Yfdi b_h"

$5i\ Z^9]gYbVU\bghfU\Y^]b^@Y]dn][.^A Ubb^fl-Ł gh]fVh^bUW\GhfY]h^]b^?^]b]_^pFY[]cbU^$

± XYf'BUW\h'Ui Z'XYf'[YZØfW\hYhYb'9]gYbVU\bghfU» Y']b'@Y]dn][
YfY][bYhY'g]W\Y]b'hfU[]gW\Yf'J cfZU``ž'XYf'YfbYi h'X]Y
; Yk U`hdfcV`Ya Y']b'X]YgYf'; Y[YbX'j YfXYi h`]W\hY"'9]b'' -!'À\f][Yf
A Ubb'k i fXY'gW\k Yf'j Yf`Yhnh'Ui Z'XYf'GhfU» Y'[YZ bXYb'i bX
j YfghUfV'_i fn'bUW\'gY]bYf'9]b`]YZYfi b[']bg'?fUb_Yb\Ui g"

 $\label{thm:continuity} I a ``\&\&''' $`I \f`U`Ufa]YfhYb`NYi [Yb`X]Y`Dc`]nY]ž'bUWXXYa ``g]Y`XYb A Ubb`a]h``YVYbg[YZÀ\f`]WXYb`JYf`Yhni b[Yb`YbhXYW_h`\UhhYb"``9]b ; fc "> Ui Z[YVch`Ub`FYhhi b[g_fÀZhYb`i bX`Dc`]nY]Y]b\Y]hYb`gdYffhY X]Y`GhfU">Y`UVž'X]Y`U`g`Y]bY`XYf`[YZÀ\f`]WXghYb`]b`8Yi hgWX`UbX VY_Ubbh`]gh"$

8]Y '9fa]hhìi b[gUfVY]hYb 'XYf 'Dc`]nY] 'XUi YfhYb 'Ghi bXYb 'Ubž k À\fYbX'X]Y 'Gdi fYbg]WXYfi b['XYb 'HUhcfh'i bhYfgi WXhY'i bX 5b\U`hgdi b_hY 'gUa a Y`hY" '8Yf 'HÀhYf 'cXYf 'X]Y 'HÀhYf 'g]bX'V]g`Ub[Ui Z'XYf': `i WXhž'i bX'Yg'k i fXYb'_Y]bY': YghbU\a Yb'[Ya Y`XYh"

$?cbZ^{-}_hYUiZXYf9]gYbVU\bghfU»Y$

6YfY]hg`9bXY`\$\b]`_Ua `Yg`ni `Y]bYf`V`i h][Yb`5i gY]bUbXYfgYhni b[j cf`Y]bYf`G\]g\UVUf`]b`XYf`9]gYbVU\bghfU»Yž`VY]`XYf`Y]b (,!^\A\f][Yf`A Ubb`gWkYf'jYf`Yhnh`ki fXY"`8]YgY`JcfZ\A``Y j YfXYi h`]W\Yb`X]Y`Ub\U`hYbXYb'; Yk U`hdfcV`Ya Y']b'X]YgYa J]YfhY`"

8]Y'9]gYbVU\bghfU»Y']b'@Y]dn][']gh'gY]h'`Ub[Ya 'U`g'GWkYfdib_h ZØf'?f]a]bU`]hÀhi bX'; YkU`h'VY_Ubbh" =a 'Bcj Ya VYf'&\$%, 'kifXY Xcfh'X]Y'YfghY'K UZZYbj YfVchgncbY']b'GUW\gYb'Y]b[Yf]W\hYhžia X]Y'G]W\Yf\Y]h']b'X]YgYa '6YfY]W\ni 'Yf\O\Yb"

8 Yf'[YbUiY'; fibX'ZØf'XYb'VfihU`Yb'GhfY]h'ibX'cV'K UZZYb']a Gd]Y``k UfYbž'g]bX'V]g\Yf'ib[Y_`Àfh"8]Y'Dc`]nY]'\Uh'X]Y 9fa]hh`ib[Yb'ni'X]YgYa'HÒhib[gXY`]_h'UiZ[YbcaaYb'ibX'\cZZhžXYb'cXYf'X]Y'HÀhYf'VU`X'ni'Z]bXYb"

B 5;

8 Y hU]`q

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