

6`]hnYf!5`Ufa 'Ui Z'XYf'5-.'8]YgY 5VgW\b]hhY'gc``hYb'G]Y'a Y]XYb'

5a '%%"%\$"&\$&('k]fX'Ui Z'XYf'5- ']b'6UmYfbž'GUW\gYb!5b\U`h i bX'6fUbXYbVi f['[YV`]hnh"'5W\hYb'G]Y'Ui Z'HYa dc`]a]hg°

5a '%%"'C_hcVYf'&\$&('\Y]» h'Yg'Ui Z'XYf'5-...i » 'j ca '; Ug'
5i hcZU\fYf'a ØggYb'g]W\'Ui Z'; YgW\k]bX][_Y]hg_cbhfc``Yb
Y]bghY``YbžXYbb'Ub'a Y\fYfYb'GhY``Yb'k]fX'[YV`]hnh''8]Y'U_hi Y``Yb
6`]hnYfU_h]cbYb'Z]bXYb'Ui Z'XfY]'5VgW\b]hhYb'XYf'6i bXYgUi hcVU\b
ghUhhžXUfi bhYf'Y]bY', \$'_a #\!NcbY'VY]'6UmfYi h\ž'Y]b'6`]hnYf']b
CfUb]YbVUi a 'a]h'; YgW\k]bX][_Y]hg[fYbnY'j cb'%&\$'_a #\'gck]Y
Y]b'k Y]hYfYf'6`]hnYf']b'XYf'BÀ\Y'j cb'FÀX][_Yž'YVYbZU``g'a]h'%&\$
_a #\'@]a]h''8]Y'A Y`Xi b[Yb'ØVYf'X]Y'6`]hnYf'ghY\Yb'i bhYf
JcfVY\U`hžXU'g]W\'X]Y'JYf_Y\fgØVYfk UW\i b[']a '@Ui ZY'XYg'HU[Yg
ÀbXYfb'_Ubb"

 $\label{eq:continuity} J Yf^]YfYb^G]Y^-Y]bY^GY_-i bXY^*i bX^*gW. \varnothing hnYb^G]Y^*g]W.^*j cf^hYi fYb \\ 6i & [Y^XYfb^*8Yf^6i & [Y^X_UhU^*c[XYf^GhfU^*Yb]Yf_Y^*]fgcfXbi b[f6hJ CE^*]ghYhX]Y^GhfUZYb^Z\Identify YgW.^*k]bX][_Y]hg\Identify YfgW.^*fY]hi b[Yb'' < U^*hYb^G]Y^*g]W.^*ghf]_h^Ub^X]Y^J cf[UVYb^-Y]b^6^]hnYfZc^hc^-Ubb gW.^*bY^*]bg^*; Y^X^*[Y^Yb''^GW. \varnothing hnYb^G]Y^*g]W.^*i bX^UbXYfY \\ J Yf_Y^*fghY]^bY^a Yf^Xi fW.^*Ub[YdUgghYg^*: U^*fj Yf^U^*hYb^*i bX VYZc^*[Yb^G]Y^*X]Y^*; YgW.^*k]bX][_Y]hgVY[fYbni b[Yb''^8]Y^5-j YfV]bXYh^6Yf^]b^*a]h^A \@bW.Yb^@VYf^*)^* $^?]^*ca YhYf^*i bX^*]gh^Y]bY YggYbh]Y^*Y^J Yf_Y^*fgUXYf''^K Y]hYfY^8YhU]^*g^*ni XYb^6^*]hnU_h]cbYb i bX^J Yf_Y^*fgfY[Y^*b^Z]bXYb^G]Y^*\]Yf'''$

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