CgWYc`U'7ci bhm'G\Yf]ZZ'5ffYghYX.'5 7cffi dh]cb'GWUbXU`'I bjY]`YX°

CgWc`U'7ci bhm'G\Yf]ZZ'A UfWcg'@cdYn'UffYghYX'Zcf fUW_YhYYf]b[']b'U'a Ugg]j Y']``Y[U`'[Ua V`]b['cdYfUh]cb/]bj Ygh][Uh]cb'cb[c]b["



?]gg]a a YYž: `cf]XUžI G5 ! CgWc`U'7ci bhmi]gik]hbYgg]b['U ghcfa icZ'Wcbhfcj YfgmiZc``ck]b['h\Y'UffYghicZ'G\Yf]ZZ'A UfWcg @cdYnžk\c'\Ug'Zci bX'\]a gY`Z']b'\chik UhYficj Yf'W\Uf[YgicZ']``Y[U`[Ua V`]b['UbX'di V`]WWcffi dh]cb"'=h g'U'ZUf'WfmiZfca 'h\Y'dfca]gYg cZ']bhY[f]hm'UbX'gYfj]WY'h\UhicbWY'YW\cYX'h\fci [\ci h'\]g WUa dU][b"'5\W\cfX]b['hc'K Ygh'Cf`UbXc'BYk gž'h\Y': `cf]XU; cj Yfbcf'Fcb'8YGUbh]g'X]X'bch'\Yg]hUhY'hc'gi gdYbX'@cdYn'UbX Uddc]bh'7\f]ghcd\Yf'5"'6`U\w_a cb'Ug'h\Y'bYk 'g\Yf]ZZz'g][b]Zm]b[h\Y'[fUj]hm'cZ'h\Y'g]hi Uh]cb"

H\Y`W\Uf[Yg`U[U]bgh`@cdYn`ghYa`Zfca`U``Y[Uh]cbg`h\Uh`\Y gdYUf\YUXYX`U`aUgg]jY`[UaV`]b[`cdYfUh]cb`h\Uh`fU_YX`]b`cjYf ~&%"*`a]``]cb`]b`]``]W]h'dfcZ]hgž'df]aUf]`m'cdYfUh]b[`k]h\]b`@U_Y`UbX CgWc`U`7cibh]Yg"'H\Y`cdYfUh]cbg`fYdcfhYX`m`VY[Ub`Ug`YUf`m`Ug&\$%-`Vih`YgWU`UhYX`g][b]Z]WUbh`m`UZhYf`@cdYn`k Ug`Y`YWhYX`g\Yf]ZZ]b`Bcj Ya VYf`&\$&\$"'K\]`Y`]b`cZZ]WYž'\Y`]g`UVWYgYX`cZ`ig]b[`\]g dcg]h]cb`hc`dfchYWh`h\Y`[Ua V`]b[`YbhYfdf]gY`Zfca ``Uk YbZcfWYa Ybh`gWfih]bm`UbX`Wcbh]biYX`hc`fYWY]jY`U`W'h`cZ`h\YcdYfUh]cbg`dfcZ|hgž`Ug`XYhU]`YX`Vm`: `cf]XU`HcXUm"

5.7cbhfc``YX.CdYfUh]cb

@cdYn'a UbU[YX'h\Y']``Y[U``UWh]j]h]Yg'U`cb[g]XY'Zci f'UggcW]UhYgž cj YfgYY]b['j Ybi Yg'`]_Y'h\Y': i g]cb'GcW]U``7`i V'UbX'9W]dgY'GcW]U` 7`i V']b'?]gg]a a YYž'k \]W\'ZUW]`]hUhYX']``Y[U``[Ua V`]b["'5Wh]j]h]Yg]bWi XYX'dYfgcbU```chhYf]Yg'UbX'g`ch'a UW\]bYg Vch\'dfc\]V]hYX i bXYf': `cf]XU'`Uk "'H\Y'WfUW_Xck b'k Ug'h\Y'fYgi `h'cZ'U'a i `h]! U[YbWm']bj Ygh][Uh]cb'`YX'Vm' < ca Y`UbX'GYW'f]hm' \pm bj Ygh][Uh]cbg fk G \pm 'UbX'h\Y': `cf]XU'8YdUfha Ybh'cZ'@Uk '9bZcfWYa Ybh'fl 8@9 \pm Z'U Wca dfY\Ybg]j Y'UddfcUW\'h\Uh']bX]WUhYg''l gh'\ck 'ZUf'h\]g'U``Y[YX Wf]a]bU``bYhk cf_'YI hYbXYX''

 $F Y g d c b g Y g 'hc' @cd Y n g' U f f Y g h' \ U j Y' V Y Y b' g k \] Z h z' k \] h \ 'Wc a \ a \ i \ b \] h m a \ Y a \ V Y f g' Y I \ d f Y g g] b [\ 'g \ c \ W_ 'U b X' X] g U d d c] b h a Y b h'' A U b m' U f Y' b c k \ WU ``] b [\ 'Z c f' U W W c i \ b h U V] `] h m' U b X' [\ f Y U h Y f' h f U b g d U f Y b W m' k] h \] b' h \ Y g \ Y f] ZZ g' c ZZ] W ''' < G = G d Y W J U ``5 [Y b h' <math>\approx$ \ b' 7 c b X c b' b c h Y X' h \ U h' b c c b Y'] g' U V c j Y' h \ Y'` U k z' i b X Y f g W c f] b ['h \ Y' c b [c] b ['W c a a] h a Y b h' h c W c a V U h] b ['Wc f f i d h] c b'] b'` U k 'Y b Z c f W a Y b h'' 5 Z h Y f' g i W 'g Y f] c i g U W W g U h] c b g z' h \ Y' d f c g d Y W h' c Z' f Y Z c f a 'k] h \] b' h \ Y' d c `] W Y' Z c f W '] g] b W f Y U g] b [`m' c b' h \ Y' h U V `Y z' g i [[Y g h] b ['h \ U h' d i V `] W h f i g h' \ U g' h U _ Y b U 'g] [b] Z] W U b h' \] h''

7ci bh cb h\ Y @Y [U` Dfc Wygg

7i ffYbh`mž'@cdYnž'U[YX') * ž']g'VY]b['\Y`X'k]h\ci h'VU]``]b'@U_Y
7ci bhmž'Uk U]h]b['U'Wci fh'UddYUfUbW'cb'* bY'' \$ ž'&\$&' "': UW]b[
W\Uf[Yg'cZ'fUW_YhYYf]b['UbX'Wcbgd]fUWm'hc'Wca a]h
fUW_YhYYf]b[Vch\'WUgg]Z]YX'Ug'gYWcbX!XY[fYY
ZY`cb]Yg @cdYn g'Zi hi fY'bck '\Ub[g']b'h\Y'VU`UbW'''=Z'Zci bX
[i]`hmž'\Y'Wci `X'ZUWY'gYj YfY'dYbU`h]Ygž']bWi X]b['gi VghUbh]U`'Z]bYg
UbX'dchYbh]U`'df]gcb'h]a Y"'H\Y'dfcgYW'h]cb'k]```VY'`YX'Vm'GYb]cf

 $\label{eq:continuity} 5gg]ghUbh'GhUhYk]XY'DfcgYW'hcfg'7c``YYb'AcbfcY'UbX'DUbU[]chUDUdU_cg'Ug'dUfh'cZ': `cf]XUg':]Zh\'\dis X]W]U`'7]fW']hž'Ybgif]b['h\Uhhh\']g'WUgY']g'hfYUhYX'k]h\'h\Y'gYf]cigbYgg']h'XYgYfjYg'''$

5a]Xghigk]f`]b['UWW gUh]cbgžh\Y']bW]XYbhiU`gc'Vf]b[g'hc'`][\h
j Uf]ci g'dUghiWcbhfcj Yfg]Yg']bj c`j]b['@cdYn": fca 'UWW gUh]cbg'cZdc`]WY a]gWcbXi Whihc'dfYj]ci g'gWUbXU`gžh\]g'UffYgh'a Uf_g'U
Wcbh]bi Uh]cb'cZ'hfci V`]b['hi fVi `YbWY']b'\]g'WUfYYf"'BchUV`mžh\Y
g\Yf]ZZ'\UX'dfYj]ci g`m'VYYb'Wf]h]W]nYX'Zcf'\]g'UWh]cbg']bj c`j]b['UbcZZ]WYf!]bj c`j YX'g\cch]b['UbX']bUddfcdf]UhY'Wca a Ybhg'a UXY
fY[UfX]b['U'ZYa U`Y'Ya d`cmYYž'Z fh\Yf'Wca d`]WUh]b['\]g'Y[UWh'

K \ Uh g B Y I h3

H\]g'g]hi Uh]cb'gYhg'h\Y'ghU[Y'Zcf'U'dcgg]V`Y'f]dd`Y'YZZYWh
h\fci [\ci h'h\Y'fY[]cbž'k]h\'YIdYWhUh]cbg'cZ'a cfY']bj Ygh][Uh]cbg
UbX'dchYbh]U``m'Zi fh\Yf'W\Uf[Yg'U[U]bgh'j Uf]ci g']bX]j]Xi U`g
WcbbYWhYX'hc'h\Y'[Ua V`]b['cdYfUh]cb"'5g'bchYX'Vm'7ci bhm
@cWU``BYk gž'h\Y'VfcUXYf']a d`]WUh]cbg'cZ'h\]g'WUgY']bWi XY
cb[c]b['X]gW'gg]cbg'UVci h'h\Y'bYYX'Zcf'fYZcfa 'UbX'Yb\UbWXX
cj Yfg][\h'k]h\]b'`cWU```Uk 'YbZcfWYa Ybh'U[YbW]Yg"

5g·h\Y`Wca a i b]hm`[fUdd`Yg`k]h\`h\YgY`XYjY`cda YbhgžcbY`WUb h\Y`d`Vi h`k cbXYf`k\Uh`a YUgi fYg`k]```VY`di h`]b`d`UWY`hc`fYghcfYdi V`]Whfi gh`UbX`Ybgi fY`UWWci bhUV]`]hm"`H\Y`YmYg`cZ`CgWYc`U7ci bhm`UfY`gi fY`hc`fYa U]b`Z]l YX`cb`h\Y`Wci fh\ci gY`h\]gʻ\$ bYž k U]h]b[`hc`gYY`\ck`h\]g`hU`Y`cZ`Wcffi dh]cb`Wcbh]bi Yg`hc`i bZc`X"

8 Y hU]`g	
Cfh	?]gg]a a YYž: `cf]XUžI G5
EiY``Yb	k Yghcf`UbXcbYk g"Wca
	• k k k "Z`cf]XUhcXUm"Wca
	Wci bhm`c WU`bYk g"Wca