

7f]gh]Ubc'FcbU`Xc.'5VgWX]YX'jcb'5`! BUggf3'K YWXgY``nif'?`iV!K A']a ; YgdfÀWX°

7f]gh]Ubc'FcbU`Xc'_ÒbbhY'Y]bYb'JYfY]bgk YWXgY``j cf'XYf ?`i V!K A']a''* b]'d`UbYb"'GdY_i `Uh]cbYb''bUWX'_fmdh]gWXYf 6chgWXUZh'Ui Z'GcW]U`'AYX]U"

F]mUX\ ž'GUi X]! 5 fUV]Y b '! '7 f]gh]Ubc 'F cbU'Xc'\Uh'_Øfn']W\ 'Ui Z gY]bYb 'GcW]U'!A YX]U!? UbA'Yb 'Y]bY '6chgW\ UZhij YfÒZZYbh']W\ hž'X]Y GdY_i `Uh]cbYb 'ØVYfY]bYb 'a Ò[`]W\ Yb 'K YW\ gY`'Ub\Y]nh" '\# Y]bYa 6 Y]hfU['Ui Z'\# ghU[fUa 'i bX'L ž']b 'XYa 'Yf'Y]b ': chc']a 'Hf]_ch'j cb'5`! B Uggf: 7 'nY][hž'gW\ f]YV'XYf'(\$! 'A\f][Y'Gd]Y`Yf. '8]YgYg'? Ud]hY`']gh UV[YgW\`cggYb"'8]Y'; YgW\]W\ hY3'K]fX'bcW\ '[YgW\ f]YVYb"'\#W\ 'V]b U``Yb 'XUb_VUf" '8]YgY'K cfhY'k i fXYb'j cb'j]Y`Yb': Ubg'i bX 9I dYfhYb'U`g'a Ò[`]W\ Y'5VgW\]YXgVchgW\ UZh']bhYfdfYh]Yfhž]bgVYgcbXYfY']a '<]bV`]W_'Ui Z'X]Y'VYj cfghY\YbXY'7`i V! K Y`ha Y]ghYfgW\ UZh'

FcbU`Xc`ghY\h`gY]h`&\$&'`ibhYf`JYfhfU[`VY]a`5`!BUggf`:7`]b`GUiX]!

5fUV]Yb"'8Yf`JYfY]b`k]fX`YXcW\`b]W\h`Ub`XYf`7`iV!

KY`ha Y]ghYfgW\UZh`hY]`bY\aYbžX]Y`j ca`%("'\$\dangle b]`V]g`%' "'\$\a`]`&\$&)
]b`XYb`I G5`ghUhhZ]bXYh`ibX`Ub`XYf`'&`HYUag`hY]`bY\aYbž

XUfibhYf`UiW\`XYf`:7`6UmYfb`AØbW\Yb`ibX`6cfigg]U`8cfhaibX"

:]ZU!DfAg]XYbh`;]Ubb]`\dangle ZUbh]bc`\Uh`Ub[YXYihYhž`XUgg`FcbU`Xc

XifW\`Y]bYb`_ifnZf]gh][Yb`JYfY]bgkYW\\gY``Ub`XYf`7`iV!KA

hY]`bY\aYb`_ObbhY"8UVY]`YfkA\bhY`Yfž`XUgg`;YgdfAW\Y`a]h

aY\fYfYb`JYfY]bYb`]a`;Ub[Y`g]bXž`X]Y`\dangle hYfYggY`Ub`XYa

GidYfghUf`nY][Yb"

?ifnZf]gh][Y'HfUbgZYfa Ò[`]WX_Y]hYb

 $8]Y a cX]Z]n]YfhY Gca a Yf!HfUbgZYfdYf]cXY XYf <math>:= 5 Yf Ui VhYg Z_i fnZf]gh][Y HfUbgZYfg nk]gW Yb XYa '%" i bX '%$" i bX '%$" i bY gck]Y j ca &+ " i b] V]g '' " i x `] Xi fW ni ZØ\fYb " 8]Yg _ ObbhY XYb J YfY]bYb ZX]Y Ub XYf '7 `i V!K A 'hY]`bY\a Yb ZX]Y A O[`]W _Y]h [YVYb Z dfca]bYbhY Gd]Y `Yf k]Y F cbU`Xc 'ni 'j Yfd Z]W hYb " + D ZUbh]bc 'a UW hY XYi h`]W Z XUgg 'Yg 'gd UbbYbXY '9bhk] W_`i b[Yb [YVYb _ ObbhY Z i bX 'Yg []Vh GdY_i `Uh]cbYb 'ØVYf F cbU`Xcg 'dchYbn]Y ``Yb 'K YW gY ``ni 'Y]bYa 'XYf VfUg]`]Ub]gW Yb 'HY]`bY\a Yf 'Ub 'XYa 'Hi fb]Yf"$

8]Y'b]Wkh'HY]`bU\a Y'j cb'5`!BUggf'Ub'XYf'7`i V!K A'\Uh'X]Y
; YfØWkhY'i a 'FcbU`Xcg'Ni _i bZh'ni gÀhn`]Wk'Ub[Y\Y]nh"8]Y
HUhgUWkYž'XUgg'bi f'5`!<]`U`'Ui g'GUi X]!5fUV]Yb']a 'K YhhVYk YfV
j YfhfYhYb']ghž'_ObbhY'X]Y'K U\fgWkY]b`]Wk_Y]h'Y]bYg'K YWkgY`g
Yf\O\Yb"'FcbU`Xc'gY`Vgh'gWkY]bh'a]h'gY]bYf'6chgWkUZh'Ui Z'GcW]U`
A YX]U'Y]b'NY]WkYb'ni 'gYhnYb'i bX'`Àggh'FUi a 'ZØf'GdY_i `Uh]cbYb
ØVYf'gY]bY'bÀWkghYb'GWkf]hhY"

8]YFYU_h]cbYbXYf:Ubg

8]Y'_ca a YbXYb'K cWXYb'j YfgdfYWXYb'gdUbbYbX'ni 'k YfXYbž'j cf U``Ya ž'XU'X]Y'8YUX`]bY'ZØf'hfUbgZYfVYX]b[hY'5_h]j]hÀhYb']a FU\a Yb'XYf'7`i V!K A 'bÀ\Yf'fØW_h"'8]Y': i » VU``!K Y`h'k]fX [YgdUbbh'VYcVUWXhYbž'k Y`WXY'9bhgWXY]Xi b[Yb'7f]gh]Ubc'FcbU`XchfYZZYb'k]fX'i bX'cV'Yf'a Ò[`]WXYfkY]gY'Y]bY'bYi Y <YfUi qZcfXYfi b['Ubb]a a hž'VYj cf'XUq'Hi fb]Yf'VY[]bbh"

: Øf'k Y]hYfY' \pm bZcfa Uh]cbYb'ØVYf'X]Y'<]bhYf[fØbXY'ni a 'a Ò[`]W\Yb K YW\gY`'j cb'FcbU`Xc'_ÒbbYb'G]Y'X]Y'6Yf]W\hY'j cb'h!cb`]bYž'G_m

8 YhU]`g	
J c f ZU``	Gcbgh][Yg
Cfh	F]mUX\ž'GUiX]!5fUV]Yb
EiY``Yb	k k k "h!cb`]bY"XY
	gdcfh"g_m"XY
	k k k "hfUbgZYfa Uf_h"XY

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