

$GYb]cfYb!lbZU``]b'9fX]b[.': YiYfkY\fVYZfY]h'+$!<math>\rightarrow$ \f][Y'Uig'8UW]U°



GWX`c» U``YYž',) (') '9fX]b[ž'8Yi hgWX`UbX`!'5a '8]YbghU[ž'XYb%, "'`\$\dagger*b]'&\$\&\) ž'YfY][bYhY'g]WX']b'XYf'GWX`c» U``YY']b'9fX]b['Y]b I bZU```a]h'Y]bYa', %!'\and A\f][Yb'5i hcZU\fYfž'XYf'g]WX'VY]a, VYf\c`Yb'Y]bYg'dUf_YbXYb'@_k'j YffYWXbYh\Uh"'8Yf': U\fYfž'Y]b`c_U`Yf'6Ykc\bYfž'kc``hY'`]b_g'Ub'XYa': U\fnYi['jcfVY]ZU\fYbž'\OVYfgU\'YXcWX'XYb'b\Oh][Yb'5VghUbX'ibX_c``]X]YfhY'a]h'XYffYWXhYb': U\fnYi[Zfcbh'gY]bYg'8UW]U"'5b'6cfX'kUf'gY]bY+\$!'\and A\f][Y'9\YZfUiž'X]Y'g]WX'VY]'XYa'J'cfZU```jYf`YhnhY'ibX'b]WXha'Y\f'gY`Vghgh\and bX]['Uig'XYa'5i hc'UigghY][Yb'_cbbhY'''G]Y'kifXYXUfUiZ\]b'jcb'XYf': YiYfkY\f'VYZfY]h'ibX'a]h'`Y]WXhYb'\dagger*bY'''G]Y'kifXYXUfUiZ\]b'jcb'XYf': YiYfkY\f'VYZfY]h'ibX'a]h'`Y]WXhYbk]fX'UiZ'YhkU'%+")\$\$'9ifc'[YgWX\and hh'''\ddog'x]YgYa'NigUa'aYb\Ub[kifX'UiZ'YhkU'%+")\$\$'9ifc'[YgWX\and hh'''\ddog'x]YgYa'NigUa'aYb\Ub[kifX'YXYf': \O\fYfgWXY]b'XYg': U\fYfg'jcf\and AiZ]['Y]bVY\U'hYbž'XU

X]Y'GhUUhgUbk U`hgW\UZh'XYb'9]bXfi W_'Yf`Ub[hYž'XUgg'Yf'Y]b
: U\fnYi ['b]W\h'a Y\f'g]W\Yf'ZØ\fYb'_ObbY"8]Y'YbX[Ø`h][Y
9bhgW\Y]Xi b['ØVYf'XYb': Ø\fYfgW\Y]b'cV`]Y[h'bi b'XYf
: Ø\fYfgW\Y]bghY``Y'XYg'@UbXfUhgUa hYg'9fX]b["'K À\fYbX'XYf
I bZU``Ui ZbU\a Y'k Uf'X]Y'GW\`c» U``YY']b'VY]XY': U\fhf]W\hi b[Yb
[YgdYffhži bX'Yhk U'' \$'9]bgUhn_fÀZhY'XYf': Yi Yfk Y\f'9fX]b['i bX
5`hYbYfX]b['k UfYb'j cf'Cfhži a 'ni '\Y`ZYbž'VYf]W\hYh'98!@]j Y"

 $K [Y'g]W ^{0}b [ghY'GhUh]gh]_Yb'nY] [Yb Ž'ghY] [h'X]Y'NU\``XYf'À`hYfYb$ $JYf_Y\f(hY)\bY\a Yf'_cbh]bi]Yf']WX ž'XU']a a Yf'a Y\f'A YbgWXYb'V]q$ $[bg'\c\Y'5\hYf'a\cV]\VYb'a\c\WhYb''GYb]cfYb'g]bX'cZh'b]WhX]Y$; YZÀ\fXYfž'gcbXYfb'j]Y`a Y\f'[YZÀ\fXYhY'JYf_Y\fghY]`bY\a Yf" @Ui h'XYa '5857'\UVYb'A YbgW\Yb'UV'*) '\\fYb'&\&\' 'bi f'\%, \z) 'i XYfil bZÀ``Y`a]h'DYfqcbYbqW\UXYb'j Yfi fqUW\hž'k Uq'k Yb][Yfi]qh'U`q]\f'6Yj \dot{O} _Yfi b[gUbhY]`'j cb'i b[YZÀ\f'&&'ı "'8YbbcW\'k]fX']a a Yf k]YXYf'ØVYf'X]Y'G]W\Yf\Y]h'À`hYfYf': U\fYf'X]q_i h]Yfh"'Gc'nY][h'Y]bY Ghi X]Y XYg $5 \text{ fVY} \text{lng}_\text{fY} \text{lgYg} = \text{VY} \text{la}$)) " 8 Yi \text{lngWX Yb} JYf_Y\fg[Yf]WXhghU[žXUgg*GYb]cfYb*]b*XYf*IbZU*`ghUh]gh]_*nkUf $Y]bY \cdot C \cdot Y \cdot NU \cdot Ui Zk Y]gYbž' YXcW \cdot b]Wk h'a Y \cdot f'I bZÀ``Y$ j Yfi fgUW\Yb'U`g'Øb[YfY': U\fYf']b'XYf'5`hYfq[fi ddY'%, !&%'\\fY" 9]b; fi bXž'k Ufi a X]Y'8] g_i gg]cb \emptyset VYf'[YgYhn[YVYf]gWYAU» bU\aYb'fibX'ia'XYb': Ø\fYfqW\Y]bYbhni['ZØf'À`hYfY 5i hc ZU\fYf']a 'A ca Ybh'b]W\h'U_i h']gh" 5i W\ '5857 'VYhcbhž'XUgq A`hYfYJYf Y\fghY]`bY\a YfcZnY]bYbijcfUiggW\UiYbXYb: U\fgh]` $\UVYb\check{z}'XYf'\Y`ZYb'_Ubb\check{z}'U`hYfgVYX]b[hY`@Y]ghib[gY]bVi»Yb$ Ui gni [`Y]WXYb"

$G]WXYfY]hgVYk i gghgY]b^]a GhfU» Ybj Yf_Y\f$

8]Y 'fY Wk h`]Wk Y 'G]hi Uh]cb 'VY nØ[`]Wk 'XYg': Ø\ fY fg Wk Y]b Y b hni [g'VY] À 'hY fY b': U\ fY fb ']gh'_ca d`]n]Y fh'' 'K Y b b' X]Y 'Dc`]nY]'VY]'Y]b Ya

J cf ZU```k]Y 'XYa ']b '9f X]b['XYf': Ø\ fY fg Wk Y]b gh Y``Y 'a]hhY]`hž' X Ugg

Nk Y]ZY``Ub 'XYf': U\ fY][bi b['VY gh Y\ Y b ž'_Obb Y b' f Ud]XY

A U* b U\ a Y b' Zc`[Y b'' 8 Y f' 5 i Zh f U[ž' X]Y': U\ fY f`Ui V b]g'ni 'VY k Y f h Y b ž

`]Y[h' Y X c Wk']a a Y f' b c Wk' V Y]' X Y b' 6 Y \ Of X Y b'' 'Y` h Y f Y': U\ f Y f' g c``h Y b

g]Wk' f Y Wk hn Y]h]['VY f Uh Y b'` Ugg Y b ž'i a 'a O[`]Wk Y f k Y]g Y

i b U b [Y b Y \ a Y', V Y f f Ug Wki b [Y b' k]Y 'X Y b' J Y f`i gh']\ f Y g

: Ø\ f Y f g Wk Y] b g'ni 'j Y fa Y] X Y b'' '9] b Y' f Y Wkh'] Wk Y' 6 Y f Uhi b ['_Ubb'\] Y f

k Y f hj c``Y' I b h Y f g h Ø h n i b ['V] Y h Y b' i b X'\ Y` Z Y b ž' X] Y'] b X]j] X i Y``Y b

6 Ø f [Y f f Y Wkh Y 'n i 'k U\ f Y b ž' k] Y 'U i Z' Ub k U`" X Y 'Y f` À i h Y f h k] f X''

8 YhU]`g	
Cfh	GWX`c»U``YYž',)(')'9fX]b[ž'8YihgWX`UbX
EiY``Yb	• k k k "YX!`]j Y"XY
	• k k k "Ubk U`h"XY
	• k k k "UXUWXY

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