

### $7cc_{YY} = \frac{Afh. Gc VYY}{bZi} ggYb gY + f$ $Cb_{y}$

9fZU\fYb'G]Yž'k]Y'?Uf`gfi\Yg'YfghY'GcW]U`'7`iVg'XYbg]W\YfYb'ibX'\_cbhfc``]YfhYb'JYfhf]YV'jcb'7UbbUV]g [YghU`hYb'gc``Yb"

## 8 Yf '9]bgUhn 'j cb '7cc\_]Yg ']a '=bhYfbYh. < YfUi gZcfXYfi b[ 'cXYf '7\UbW 3

# K Ug g]b X '7 c c \_ ]Y g 'i b X 'k ]Y 'Zi b \_ h]c b ]Y f Y b g]Y 3

7cc\_]Yg'g]bX'\_`Y]bY'HYI hXUhY]Ybž'X]Y'Ui Z'XYa '7ca di hYf'XYg
Bi hnYfg'[YgdY]WXYfh'k YfXYbž'k Ybb'Yf'Y]bY'K YVgY]hY'VYgi WXh'''G]Y
Yfa Ò[`]WXYb'Yg'XYf'K YVgY]hYž'XYb'6fck gYf'XYg'Bi hnYfg'VY]
gdÀhYfYb'6Ygi WXYb'k]YXYfni Yf\_YbbYb'''8]Yg'[YgWX]Y\hž']bXYa
U\_hi Y``Y'\DZcfa Uh]cbYb'hYa dcfÀf']a '6fck gYf'[YgdY]WXYfh
k YfXYb'''5i Z'X]YgY'K Y]gY'gUa a Y`b'K YVgY]hYb'Ubcbma ]g]YfhY
8 UhYbž'c\bY'dYfgÒb`]WXY'\DZcfa Uh]cbYb'dfY]gni [YVYb'''9]b'7cc\_]Y
\]`Zh'XUVY]ž'X]Y'6Ybi hnYfYfZU\fi b['ni 'j YfVYggYfbž']bXYa 'Yg
J cf`]YVYb'i bX'9]bghY``i b[Yb'gdY]WXYfh''

8]YjYfgWX]YXYbYb'5fhYbjcb'7cc\_]Yg

9g'[]Vh'XfY]'<Ui dhhmdYb'j cb'7cc\_]Ygž'X]Y'Ui Z'K YVgY]hYb j Yfk YbXYh'k YfXYb.

- Bchk YbX][Y'7cc\_]Yg. '8]YgY'g]bX'ZØf'X]Y'[fibX`Y[YbXY:ib\_h]cbU`]hÀh'XYf'K YVgY]hY'ibYf`Agg`]WX"'G]Y'Yfa Ò[`]WXYbibhYf'UbXYfYa 'X]Y'GY]hYbbUj][Uh]cb'ibX
   g]WXYf\Y]hqfY`YjUbhY'AU»bU\aYb"
- GhUh]gh]\_!7cc\_]Yg. '8]YgY '7cc\_]Yg 'gUa a Y`b Ubcbma ]g]YfhY '8 UhYb 'ni f'5bU`mgY 'XYg'Bi hnYfj Yf\U`hYbg" 8 UXi fWX '\_ObbYb'K YVgY]hYbVYhfY]VYf'\YfUi gZ]bXYbž'k]Y cZh'VYgh]a a hY 'GY]hYb'VYgi WXh'k YfXYb'i bX'k c Cdh]a]Yfi b[gdchYbn]U`'VYghY\h"
- A Uf\_Yh]b[!7cc\_]Yg. G]Y \Y`ZYb XUVY]žX]Y ⊕\U`hY XYf

  K YVgY]hY VYggYf Ui Z'X]Y ⊕ hYfYggYb XYf Bi hnYf

  UVni gh]a a Yb" < ]YfVY] k YfXYb ⊕ Zcfa Uh]cbYb ØVYf X]Y

  Bi hni b[ XYf K YVgY]hY [ YgdY]W Yfhži a 'dYfgcbU`]g]YfhY

  K YfVi b[ 'ni 'Yfa Ò[ `]W Yb"

## K Ufi a ']gh'X]Y'J Yfk YbXi b['j cb'7cc\_]Yg k ]WX h][ 3

7cc\_]Yg'gd]Y`Yb'Y]bY'k YgYbh`]WXY'Fc``Y'VY]'XYf'JYfVYggYfi b['XYfBi hnYfYfZU\fi b["'G]Y'Yfa Ò[`]WXYb'Yg'K YVYbhk ]W\_`Yfbž'X]Y K YVgY]hYb'i a ZUggYbX'ni '[YghU`hYb'i bX'X]Y'+b\U`hY'YbhgdfYWXYbXXYb'6YXØfZb]ggYb'XYf'6Ygi WXYf'ni 'cdh]a ]YfYb"'8UfØVYf'\]bUi g hfU[Yb'g]Y'XUni 'VY]ž'X]Y'G]WXYf\Y]h'XYf'Bi hnYf'ni '[Yk À\f`Y]ghYbž ]bXYa 'g]Y'gWXbY``Ui Z'dchYbn]Y``Y'G]WXYf\Y]hgVYXfc\i b[YbfYU[]YfYb'\_ObbYb"

#### K Ug VYXYi hYh XUg ZØf X]Y Bi hnYf3

8]Y '9bhgWX Y]Xi b[ž'k Y`WX Y '7cc\_]Yg'Yf`Ui Vh'k YfXYbž``]Y[h
`YhnhYbX`]WX 'VY]a 'Bi hnYf"'6Y]'XYf'YfghYb'Bi hni b['Y]bYf'K YVgY]hY
k]fX'cZh'i a '9f`Ui Vb]g'ZØf'XUg'GYhnYb'j cb'7cc\_]Yg'[YVYhYb"
Bi hnYf'gc``hYb'g]WX'VYk i ggh'gY]bž'XUgg'X]Y'8YU\_h]j]Yfi b[
VYgh]a a hYf'7cc\_]Yg'X]Y': i b\_h]cbU`]hÀh'XYf'K YVgY]hY
VYY]bhfÀWXh][Yb'\_Ubb"'9]bY']bZcfa ]YfhY'9bhgWXY]Xi b['ØVYf'X]Y

 $7cc_]Y!Bi mi b[ '_Ubb'ni 'Y]bYf'VYggYfYb'i bX']bX]j ]Xi Y``YfYb Cb`]bY!9fZU\fi b[ 'ZØ\fYb"$ 

#### : Un]h

7cc\_]Yg'g]bX'Y]b'i bj Yfn]W\hVUfYf'6YghUbXhY]`'XYg'\dank hYfbYhgž'X]Ygckc\`'JcfhY]`Y'U`g'Ui W\'< YfUi gZcfXYfi b[Yb'a]h'g]W\'Vf]b[Yb'' K\A\fYbX'g]Y'\Y`ZYbž'XUg'6fckg]b[!9f`YVb]g'ni 'j YfVYggYfbž gc``hYb'Bi hnYf'ØVYf'XYfYb'JYfkYbXi b[']bZcfa]Yfh'gY]bž'i a
Y][Ybgh\AbX]['YbhgW\Y]XYb'ni '\_\ObbYbž'kY`W\Y'7cc\_]Yg'g]Y
ni `UggYb'a OW\hYb''8]Yg']gh'VYgcbXYfg'k]W\h][']b'Y]bYf'NY]hž']b
XYf'8UhYbgW\i hn']a a Yf'a Y\f']b'XYb': c\_i g'fØW\_h''

B 5;

8 YhU]`q

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