

JcfnY]h][Y5ig`]YZYfib[dYf <iVgWxfUiVYf.?cbhfcjYfgY 9bhgWxY]Xib[XYf6Yf`]bYf6Y\ÒfXYb

8]Y'6Yf`]bYf'6Y\ÒfXY'j YfhY]X][h'X]Y'9bhgWXY]Xi b['ØVYf'XYb 5i g`]YZYfi b[ghYfa]b'Y]bYf'b]WXh!V]bÀfYb'DYfgcbž'bUWX _cbhfcj YfgYf'?f]h]_"'@YgYb'G]Y'a Y\f"

BYi Y'9bhk]W_`i b[Yb']b'XYffYWXh`]WXYb 6Y\UbX`i b['b]WXh!V]bÀfYf'DYfgcbYb

 $5a : fY]hU[a cf[Yb'ia', .' $'I \f']bZcfa]YfhY'X]Y ; YbYfU`ghUUhgUbk U`hgW\UZh']b'6Yf`]b'ØVYf'Y]bY'9bhgW\Y]Xi b[ž:X]Y X]Y'5i g`]YZYfi b['Y]bYf'b]W\h!V]bÀfYb'DYfgcb']b'Y]b'UbXYfYg'@UbX]b': fU[Y'ghY``hY''8]YgY'DYfgcb'k i fXY'j cb'XYb'i b[Uf]gW\Yb 6Y\ÒfXYb'VYgW\i `X][hž'A]h[`]YX'Y]bYf' f]a]bY``Yb'Cf[Ub]gUh]cb'ni gY]bž'X]Y'fYW\hgYI hfYa Y'9I hfYa]ghYb'Ub[fY]Zhž'gY]h'&$%+''8]Y 8]g fYdUbn'nk]gW\Yb'XYb'J cfk ØfZYb'i bX'XYf'dYfgÒb`]W\Yb <math>\exists$ Ybh]hÀh'XYf'VYhfcZZYbYb'DYfgcb'k]fZh'YXcW\'k]W\h][Y': fU[Yb']a <]bV`]W'Ui Z'XYb'GW\i hn'b]W\h!V]bÀfYf'A YbgW\Yb'Ui Z''

8 Yf '5 bk U'h'XYg '5 bhfU[ghY `Yfgž'Gj Yb 'F]Wkk]bž'Uf[i a Ybh]YfhYž XUgg'X]Y '[Yd `UbhY '5 i g`]Y ZYfi b[Y]b' <]bXYfb]g 'ZØf'Y ZZY h]j Yb FYWkhggWki hn 'XUfghY ``h'i bX 'fY]WkhY 'Y]bYb 'B chUbhfU['VY]a 6 i bXYgj YfZUggi b[g[Yf]WkhY]bž'i a 'X]Yg'ni 'ghcddYb"'9g YbhghUbX Y]bY '? cbhfcj YfgY 'ØVYf'X]Y '9bhgWkY]Xi b['XYg'@UbX[Yf]Wkhg'6Yf`]bž X]Y 'DYfgcb 'Ub 'X]Y 'ÒghYffY]Wk]gWkYb '6Y\ ÒfXYb 'ni 'ØVYfghY ``Ybž]bgVYgcbXYfY 'XU'X]Yg'nY]h`]Wk 'a]h'XYf'?f]h] 'j cb 'Gj Yb 'F]Wkk]b ni gUa a YbZ]Y `"

 $\frac{9g']gh'k}{Wh}[\underline{\check{z}'X}]\underline{Y'fYWh'}]\underline{WYb'}<\underline{YfUi}\underline{gZcfXYfi}\underline{b}[\underline{Yb'ni}\underline{VYfØW}\underline{g}]\underline{Wh}[\underline{Yb\check{z}'a}\underline{h'XYbYb'b}]\underline{Wh}\underline{V}\underline{b}\underline{A}f\underline{Y'DYfqcbYb'}\underline{c}\underline{b}Zfcbh]\underline{Yfh}$

g]bXž']bgVYgcbXYfY'k Ybb'Yg'i a '5i g`]YZYfi b[Yb'i bX]bhYfbUh]cbU`Y'FYW hgUb[Y`Y[Yb\Y]hYb'[Y\h"'8]YgY'gdYn]Y``Y G]hi Uh]cb'k]fZh'Y]b'@]W\h'Ui Z'X]Y'Xf]b[YbXY'Bchk YbX][_Y]hž GYbg]V]`]hÀh'i bX'J YfghÀbXb]g'ZØf'X]Y'=XYbh]hÀh'i bX'X]Y'fYW\h`]W\Yb 6Y`Ub[Y'b]W\h!V]bÀfYf'A YbgW\Yb'ni 'gW\ÀfZYb"

8]Y'8]g_i gg]cb'ØVYf'X]Y'5i g`]YZYfi b['b]W\h!V]bÀfYf'DYfgcbYb']b
fYW\h`]W\Yb'5b[Y`Y[Yb\Y]hYb'a i gg'k Y]hYf[YZØ\fh'k YfXYbž'i a
g]W\Yfni ghY``Ybž'XUgg'X]Y']bX]j]Xi Y``Yb'FYW\hY'i bX'=XYbh]hÀhYb
fYgdY_h]Yfh'i bX'Ub[Ya YggYb'VYfØW g]W\h][h'k YfXYb"'8]YgY
9bhk]W_`i b[Yb'j YfXYi h`]W\Yb'X]Y'Bchk YbX][_Y]hž'X]Y
FYW\hgdfYW\i b['i bX'FYW\hgj YfZU\fYb'k Y]hYfni Ybhk]W_Y`bž'i a
Y]bY'[YfYW\hY'i bX'gYbg]V]`]g]YfhY'6Y\UbX`i b['U``Yf'6Øf[Yf'ni
[Yk À\f`Y]ahYb"

8 Y hU]`g

6 Y gi W Y b 'G] Y 'i b g 'U i Z. 'a Y] b ! V Y f `] b "b Y h