

A]h[YghU`hYb]b ? U]gYfg`Ui hYfb. 6Øf[Yf]XYYb ZØf X]Y H\ YUhYfk]YgY

8]Y'GhUXh'?U]gYfg`Ui hYfb'`ÀXh'6Øf[Yf'ni f'→XYYbYbhk]W_`i b[ZØf'X]Y'I a [YghU`hi b['XYf'H\YUhYfk]YgY'Ua'+"'GYdhYa VYf &\$&('Y]b"

±0.7 U]gYfg`Ui hYfb'k i fXY Y]bY'VYXYi hYbXY'±0]h]Uh]j Y']bg'@YVYb
[Yfi ZYbži a 'XYb'6YfY]W\'nk]gW\Yb'XYa '7 Ug]a]fgUU`i bX'XYa
DZU`nh\YUhYfž'VY_Ubbh'U`g'H\YUhYfk]YgYž'bYi 'ni '[YghU`hYb"'8]Y
GhUXhj Yfk U`hi b['\Uh'X]Y'6Øf[Yf]bbYb'i bX'6Øf[Yf'U_h]j ']b'X]YgYb
DfcnYgg'Y]b[YVi bXYbži a 'k Yfhj c``Y'≠XYYb'i bX
JYfVYggYfi b[gj cfgW\`À[Y'ZØf'X]Y'ni _ØbZh][Y'9bhk]W_`i b['XYg
I a ZY`Xg'ni 'gUa a Y`b"'8]YgYg'9b[U[Ya Ybh'[]Vh'XYb'A YbgW\Yb']b
XYf'GhUXh'X]Y'A Ò[`]W_Y]hž'g]W\'ni 'VYhY]`][Yb'i bX']\fY'Gh]a a Y`]b
Y]bYf'k]W\h][Yb'5b[Y`Y[Yb\Y]h`ni 'Yf\YVYb"

5a '+"'GYdhYa VYf'&\$&('ZUbXYb'g]W\'nU\`fY]W\Y'6Øf[Yf]bbYb'i bX
6Øf[Yf']b'XYf'BÀ\Y'XYf'H\YUhYfk]YgY'Y]bži a 'Ub'Y]bYf'gdYn]Y``Yb
J YfUbghU`hi b['XYf'GhUXhj Yfk U`hi b['hY]`ni bY\a Yb"'Jcb'%\$"' \$'V]g
%) "\$\$'I\f'\UhhYb'X]Y'5bk YgYbXYb'X]Y'; Y`Y[Yb\Y]hž'a]h'XYb
J YfhfYhYfb'XYf'GhUXh']bg'; YgdfÀW\'ni '_ca a Yb'i bX']\fY'J]g]cbYb
ZØf'X]Y'ni _ØbZh][Y'Bi hni b['XYf'H\YUhYfk]YgY'i bX'XYg
Ub[fYbnYbXYb'DUf_d`UhnYg'k Ygh`]W\'XUj cb'ni 'hY]`Yb"'8Ug
\$\D\YfYggY'XYf'6Yj \O`_Yfi b['k Uf'\cW\ž'i bX'X]Y'J YfUbghU`hi b['Vch
Y]bY'D`UhhZcfa 'ZØf'XYb'5i ghUi gW\'_fYUh]j Yf'\=XYYb"

9]b 5_h XYg A]ha UW Ybg

CVYfVØf[Yfa Y]ghYf]b 6YUhY?]a a Y``]Y» 'Yg 'g]W 'b]W h bY\a Ybž X]Y 'J YfUbghU`hi b['ni 'VYgi W Yb'i bX 'a]h XYb '6Øf[Yfb ']b '? cbhU_h ni 'hfYhYb" '8]Yq 'nY][h XUq '9b[U[Ya Ybh XYf 'GhUXhž X]Y 'A Y]bi b[Yb

XYf'6Yj O'_Yfi $b[Yfbgh'ni bY\a Yb'i bX']b'X]Y'D`Ubi <math>b[gdfcnYggYY]bni VYn]Y\Yb''8]Y'5bk YgYbXYb'_cbbhYb']\Y'; YXUb_Yb'i bX <math>J cfgWX `A[Y'Ui Z'XfY]'GWX Ui hUZY`b'UbVf]b[Ybž'k Ug'X]Y' <math>\Rightarrow hYfU_h]j]hAh XYf'J YfUbghU`hi b['ZOfXYfhY'i bX'j]Y'Y'_fYUh]j Y' <math>\Rightarrow a di `gY'Ui g`OghY''8]Yg'gWX UZZh'b]WXh'bi f'Y]bYb'Cfh'XYf'; Ya Y]bgWX UZh'z gcbXYfb'ZOfXYfh'Ui WX'Y]bY' <math>\Rightarrow XYbh]Z]_Uh]cb'XYf'6Øf[Yf'a]h']\Y'a i fVUbYb'FUi a "$

8 i fW. X]Y '9]bVYn]Y\i b['XYf'6Yj Ò`_Yfi b['k]fX'X]Y 'I a [YghU`hi b[XYf'H\YUhYfk]YgY'ni 'Y]bYa '; Ya Y]bgW. UZhgdfc 'Y_hž'XUg'b]W.h'bi f X]Y'i ba]hhY`VUfY'I a [YVi b['Ui Zk YfhYb'gc``ž'gcbXYfb'Ui W. X]Y @YVYbgei U`]hÀh']b'? U]gYfg`Ui hYfb']bg[YgUa h'j YfVYggYfb'_Ubb"'8]Y JYfUbghU`hi b[']gh'HY]``Y]bYg'i a ZUggYbXYfYb'D`Ubg'XYf'GhUXhž'X]Y GhUXh[YghU`hi b['bUW.\U`h]['ni '[YghU`hYb'i bX'X]Y'6Øf[Yf'U_h]j Y]bni VYn]Y\Ybžk Ug'ZØf'Y]bY'a cXYfbY'GhUXhYbhk]W_`i b[i bYf`Àgg`]W.']gh"

8]Y'[Yd`UbhYb'JYfÀbXYfi b[Yb'g]bX'b]Wkh'bi f'Y]bY'5bhk cfh'Ui ZX]Y'6YXØfZb]ggY'XYf'6Øf[Yfž'gcbXYfb'Ui Wk'Y]b'NY]WkYb'ZØf'XUg 9b[U[Ya Ybh'XYf'GhUXhj Yfk U`hi b[ž'@YVYbgfÀi a Y'ni 'gWkUZZYbž'X]YXYb'a cXYfbYb'5bgdfØWkYb'XYf'6Yj Ò`_Yfi b['[YfYWkh'k YfXYb"'8]YH\YUhYfk]YgY'gd]Y`h'Y]bY'nYbhfU'Y'Fc``Y']a '_i `hi fY``Yb'@YVYb?U]gYfg`Ui hYfbg'i bX'X]Y'[Yd`UbhY'I a [YghU`hi b['_ObbhY'X]YgYa6YfY]Wk'bYi Yg'@YVYb'Y]b\Ui WkYb"

9]b 'gc `W. Yg 'Dfc Y_h'`]Y ZYfh'ni XYa 'k Yfhj c``Y '=a di `gY 'ZØf'UbXYfY GhÀXhYž'X]Y 'À\b`]W. Y '6YghfYVi b[Yb'j YfZc`[Yb"'8]Y 'U_h]j Y 6Øf[YfVYhY]`][i b['Ub'ghÀXh]gW. Yb'D`Ubi b[Yb'gYhnh'Y]b'NY]W. Yb ZØf'HfUbgdUfYbn'i bX'J YfUbhk cfhi b['i bX'nY][hž'k]Y'k]W. h]['Yg']ghž X]Y 'A Y]bi b[Yb'XYf'A YbgW. Yb'ni 'VYfØW_g]W. h][Ybž'X]Y']b'X]YgYb F Ài a Yb'`YVYb'i bX'UfVY]hYb"'8]Y 'GhUXh'? U]gYfg`Ui hYfb'VYk Y]gh a]h'X]YgYf' =b]h]Uh]j Yž'XUgg'g]Y'VYfY]h']ghž'Ui Z'X]Y'K ØbgW. Y'i bX 6YXØfZb]ggY']\fYf'6Øf[Yf'Y]bni [Y\Ybž'i bX'[`Y]W. nY]h]['Y]bY J cffY]hYffc``Y']b'XYf'GhUXhYbhk]W_`i b[Y]bni bY\a Yb"

Gc`W\Y'DUfh]n]dUh]cbgdfc Υ _hY'g]bX'b]W\h'bi f'ZØf'X]Y'i ba]hhY`VUfY 9bhk]\W_`i b['j cb'6YXYi hi b['ž'gcbXYfb'hfU[Yb'Ui W\'XUni 'VY]ž'Y]b ; YZØ\`'XYf'Ni gUa a Yb[Y\Of][_Y]h'i bX'XYg'9b[U[Ya Ybhg']b'XYf

GhUXh'ni 'ZÒfXYfb"'K Ybb'6Øf[Yf]bbYb'i bX'6Øf[Yf'U_h]j Y
HY]`bY\a Yf']b'XYf'; YghU`hi b[']\fYg'l a ZY`XYg'g]bXž'YbhghY\Yb
CfhYž'X]Y'XYb'6YXØfZb]ggYb'XYf'; Ya Y]bgW\UZh'VYggYf'[YfYW\h
k YfXYb'i bX'gca]h'Y]bY'dcg]h]j Y'9bhk]W_`i b['Ubghc»Yb'_ObbYb"

8 YhU]`g

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