

9fÒZZbi b['XYg'U/ Ua d/c'5bhk YfdYb 7YbhfUU`.'9]b'bYi Yg'? Ud]hY`']a '< YfnYb 6Y`[]Ybg

9bhXYW_Yb^G]Y^XUg^U/ Ua d/c^5bhk YfdYb^7YbhfUU^z^XUg^Ua %"Bcj Ya VYfYfOZZbYhk]fX^A]h^%' 'N]a a Yfb^]a '< YfnYb 5bhk YfdYbgz^X]fY_h^[Y[YbØVYf^XYa '< Ui dhVU\b\cZz^V]YhYh Yg^Y]b^a cXYfbYgz^[Øbgh][Yg^, VYfbUWkhi b[gYf^YVb]g" 9fZU\fYb^G]Y^a Y\f^ØVYf^X]Y^[Yd^UbhY^A cXYfb]g]Yfi b[ii bX X]Y^9I dUbg]cbgd^AbY^XYf^U/ Ua d/c^<cghY^g^]b^9i fcdU"~\\XYU^



9]b'bYiYg'?Ud]hY`']b'5bhkYfdYb.'U/c'YfÒZZbYh'YfghYg <chY`']b'6Y`[]Yb°

5a '%" Bcj Ya VYf k]fX 'X]Y 'di `g]YfYbXY 'GhUXh '5bhk YfdYb i a 'Y]bY Ui ZfY[YbXY '5hhfU_h]cb 'fY]WXYf * 8 Ug 'U/ c '5bhk YfdYb '7YbhfUU` ÒZZbYh 'gY]bY 'HØfYb i bX 'Vf]b[h 'Zf]gWXYb 'K]bX ']b 'X]Y < chY``UbXgWX UZh 'XYf VY`[]gWXYb 'A Yhfcdc`Y" 'A]h '%' 'N]a a Yfb i bX 'YfghUi b`]WXYb') %* '6YhhYb 'k]fX 'X]YgYg' < chY``Y]b '8 fY\! i bX

8]Y; YgWk]WkhY;XYg;<chY`g;VY[]bbh;a]h;XYa;9fk YfV;Y]bYg
Y\Ya U`][Yb;6i X[Yh\chY`gž;XUg;V]g;j cf;_i fnYa;i bhYf;XYa;BUa Yb
7Ybhi fm;5bhk Yfd;VY_Ubbh;k Uf;; Øf;X]Y;gWk f]hhk Y]gY
A cXYfb]g]Yfi b[;XYg;bYi bghÒW_][Yb;; YVÀi XYg;]b;XYf
DY`]_UUbghfUUh;g]bX;V]g;&\$&);(;A]``]cbYb;9i fc;Y]b[Yd`Ubh;'I bX
XUg;6YghY3;9g``]Y[h;X]fY_h;[Y[YbØVYf;XYa;VYY]bXfi W_YbXYb
<Ui;dhVU\b\cZ;cb;5bhk YfdYb;;Y]b;dYfZY_hYf;5i g[Ub[gdi b_h;ZØf
U``Y;GhÀXhYfY]qYbXYb;

9ldUbg]cbgXfUb[XYg l bhYfbY\a Ybg

 $8]Y`9I dUbg]cb`XYf`U/c`< cghY`g`]gh`b]Wkh`ni`ghcddYb°`5bhk YfdYb]gh`VYfY]hg`X]Y`(`%"`@cWUh]cb`]b``%%`Yi fcdÀ]gWkYb`@ÀbXYfb" <math display="block">5bhk YfdYb`]gh`Y]b`YWkhYg`GhUXh^ik Y` \check{z}`gWkk Åfa h`C`]j Yf`K]bhYf\check{z} XYf`; fØbXYf`i bX`79C`XYg`I bhYfbY\a Ybg"` Jcb`i bgYfYa GhUbXcfh`Ui g`_Ubb`a Ub`X]Y`GhUXh`k i bXYfVUf`ni :: i * `cXYf`a]h XYa `FUX`Yf_i bXYb" `8]Y`7\UbW\ž`bcWk`a Y\f`< chY`g`]b`6Y`[]Yb ni `YfÒZZbYbž`]gh`YVYbZU``g`[fc*' `6fØggY``ghY\h`VYfY]hg`Ui Z`XYf K i bgWk`]ghY°$

8]Y BUW ZfU[Y gW Y]bhi b[YVfcW Ybž XYbb]a 3U f & \$ \\ VYfY]hg & 2 + A] \\]c b Y b ; \ AghY \\ U \\ c \< chY \\ g \\ Ygi \\ W \\ h'' = A \\ YfghY b \\ \< U \\ Y \\ U \\ f \& \$ & ('k \\ Uf \\ X]Y \\ NU \\ ` \\ XYf \\ \ VYfb \\ W \\ hi \\ b [Yb \\ Ui \\ Z'_b \\ Udd '\\ XfY] \\ A] \\]c b Y b '[Ygh]Y[Yb \\ '

$BUWX \setminus U^h][_Y]h^U^g^cVYfghYg^; YVch$

 $5bhk\ YfdYb\ gY\ Vgh\]gh\ Y\]b\]XYU\ Yf\ Cfh\ ZØf\ X\]YgY\ gY\ gh\ dUbg\]cb.\ A\]h$

Y]bYf'6Yj Ò`_Yfi b['j cb'fi bX')) \$"\$\$\$ A YbgWXYb'i bX'XYa
nk Y]h[fÒ» hYb'GYY\UZYb'9i fcdUg']gh'X]Y'GhUXh'Y]b'k U\fYf'A U[bYh
ZØf'Hci f]ghYb'Ui g'U``Yf'K Y`h''6Ygi WXYf'_ÒbbYb'X]Y'fY]WXY
5fWX]hY_hi f'i bX'; YgWX]WXhY'XYf'GhUXh'[Yb]Y» Yb'i bX'g]WX'Ui Z'Y]bY
NY]hfY]gY'Xi fWX'j YfgWX]YXYbY'9dcWXYb'XYf'Yi fcdÀ]gWXYb
?i bgh[YgWX]WXhY'VY[YVYb"

 $GY]^{\cdot}XUVY]^{\cdot}i \ bX^{\cdot}Yf^{\cdot}YVY^{\cdot}X]Y^{\cdot}9f\tilde{O}ZZbi \ b[^{\cdot}XYg^{\cdot}U/ \ c^{\cdot}5bhk \ YfdYb^{\cdot}7YbhfUU^{\cdot} \ Y]b^{\cdot}k \ Y]hYfYf^{\cdot}GW_{k}f]hh^{\cdot}]b^{\cdot}X]Y^{\cdot}Ni \ _i \ bZh^{\cdot}XYf^{\cdot}a \ cXYfbYb^{\cdot}i \ bX \ bUW_{k}^{\cdot}U^{\cdot}h][^{\cdot}Yb^{\cdot}< chY^{\cdot}Yf]Y^{\circ}$

8 YhU]`g

6Ygi WXYb G]Y i bg Ui Z. a Y]b!VYf`]b "bYh