

VYfZU``'Ui Z'; Y`XhfUbgdcfhYf.'Dc`]nY]'^U[h dfcZYgg]cbY``Y'?f]a]bY``Y']b'6Yf`]b°

BUWX 'Y]bYa '¸ VYfZU```Ui Z'Y]bYb'; Y`XhfUbgdcfhYf']b'6Yf`]b! A UfnUb'Z'ØWXhYhYb'X]Y'HÀhYf']b'F]WXhi b['BYi _Ò``b"'Dc`]nY] Yfa]hhY`h"

5``YY`XYf`?cgacbUihYbž·6Yf`]bž·8YihgW\`UbX`!`9]b¸VYfZU``UiZY]bYb; Y`XhfUbgdcfhYf`]b`6Yf`]b!AUfnU\b`gcf[hY`Ua`gdÀhYbGcbbhU[UVYbX`ZØf`5iZfY[ib[ibX`[fc»Yg`Dc`]nY]UiZ[YVch"8YfJcfZU```YfY][bYhY`g]W\`Ub`XYf`5``YY`XYf`?cgacbUihYbž`U`g`Y]bHÀhYf`XYb`HfUbgdcfhYf`a]h`Y]bYa`5ihc`fUaahibX`a]h; YkU`hÒZZbYh"BUW\`YfZc`[fY]W\Ya`Ni[f]ZZ`nØbXYhYb`X]Y`HÀhYf`]\fYbYfghYb`KU[Yb`Ub`ibX`Z`ØW\hYhYb`a]h`Y]bYa`kY]hYfYb`:U\fnYi["8]Y`:`iW\h`f]W\hYhY`g]W\`aÒ[`]W\YfkY]gY`]b`F]W\hib[`BYi_O``bžkcVY]`g]Y`ibnÀ\`][Y`IbZÀ``Y`jYfifgUW\hYb"

Ni [Y'XYf: U\bXi b['ZUbX'X]Y'Dc`]nY]']b'BYi _O``b'Y]bYb'K U[Ybž XYf'U`g': `i W\hZU\fnYi [']b'6YhfUW\h'[Ync[Yb'k]fX"'I a ZUb[fY]W\Y 8i fW\gi W\i b[Yb']b'XYf'i a `]Y[YbXYb'; Y[YbX'gck]Y'Ua 'HUhcfh g]bX']a '; Ub[Y"8]Y'; Yk Yf_gW\UZh'XYf'Dc`]nY]'fl XDŁ'Ài » YfhY'g]W\VYgcf[hii bX'gdf]W\h'j cb'cf[Ub]g]YfhYf'?f]a]bU`]h\h'ngck]Y dfcZYgg]cbY``Yb'GW\k Yfgh_f]a]bY``Yb"'G]Y'VYhcbhž'XUgg'XYf \VYfZU``'[i h'j cfVYfY]hYh'k Uf'i bX'X]Y'H\h'yf'b]W\h'ni a 'YfghYb'A U`Ub'Y]bYa 'gc`W\Yb'JYfVfYW\Yb'VYhY]`][h'g]bX"'8\Yf'HU[\Yggd]Y[\Y`\VYf]W\hYhz'\Dc`]nY]']bhYbq]j Yb'9fa]hhii b[Yb'bUW\[Y\h']

$Y \setminus b^* = W \setminus Y = A^* \cdot Y + A^* \cdot$

8 Yf', VYfZU```]b'A UfnU\b'Yf]bbYfh'Ub'Y]bYb'UbXYfYb'JcfZU``ž'XYfg]W\'Ua''\%"'8 YnYa VYf'&\\$\('']b'6Yf`]b!7\Uf`chhYbVif['YfY][bYhY''6Y]'X]YgYa', VYfZU```ghØfa hYb'nk Y]'A ÀbbYf'Y]bYb'; Y`XhfUbgdcfhYf

j cf'Y]bYf'6Ub_'i bX'[UVYb'a]bXYghYbg'nk Y]'GWXØggY'UV"'G]Y
ZØWXhYhYb'UbgWX`]Y» YbX'a]h'[YfUi VhYb'; Y`X_UggYhhYbž'k À\fYbX
Y]bY'6Ub_Ub[YghY``hY'k Y[Yb'GWXcW_'VY\UbXY`h'k YfXYb'a i gghY"'
B!HJ'VYf]WXhYhž'XUgg'X]Y'HÀhYf']b'Y]bYa 'gWXk UfnYb'A YfWYXYg
j cfZi \fYb'i bX'bUWX'XYa', VYfZU``'Ui Z'Y]bYb'g]`VYfbYb'' Yf!6A K
k YWXgY`hYb"

8]Y'Jcf[Y\Ybgk Y]gY'XYf'HÀhYf']b'VY]XYb', VYfZÀ``Yb'XYi hYh'Ui Z Y]bY'VYXYb_`]WXY'DfcZYgg]cbU`]hÀh'\]b"'6Y]'XYa', VYfZU``']b 7\Uf`chhYbVi f['[UV'Yg'[`ØW_`]WXYfk Y]gY'_Y]bY'J Yf`YhnhYbž'YXcWXi bhYfghfY]WXh'Y]b'Dc`]nY]gdfYWXYf'X]Y', YZÀ\f`]WX_Y]h'XYg JYf\U`hYbg'XYf'ØVYfZU``YbXYb'A ÀbbYf"'\D'XYf'JYf[Ub[Yb\Y]h'[UV Yg'a Y\fYfY'jYf[`Y]WXVUfY', VYfZÀ``Y'Ui Z', Y`XhfUbgdcfhYf']b 6Yf`]bž'XUfi bhYf'Y]b', VYfZU``']a'\J\f'&\$&%ž'VY]'XYa'Y]b'JYf`i gh jcb'*)\$"\$\$\$'9i fc'ni'jYfnY]WXbYb'kUf"

8]Y XYfnY]h][Yb '9fa]hhìi b[Yb 'i bX 'X]Y '[YbUi Y '< Ò\Y 'XYf '6Yi hY Ui g'XYb ', VYfZÀ ``Yb 'g]bX 'bcW\ 'i b_`Uf" 8YbbcW\ 'k ÀW\gh'X]Y 6Ygcf[b]g 'ØVYf 'X]Y : À\][_Y]h X]YgYf '; fi ddYbž 'XYfUfh][Yb J YfVf YW\Yb 'Ui gni ZØ\fYb 'i bX 'a Ò[`]W\Yfk Y]gY 'k Y]h YfY ', VYfZÀ ``Y ni 'd`UbYb"

8 Y hU]`g	
Cfh	5``YY`XYf`?cga cbUi hYbž'6Yf`]bž'8Yi hgW\`UbX
EiY``Yb	• k k k "hU[Yggd]Y[Y`"XY
	• k k k "b!hj "XY

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