∞]b h\Y \Rightarrow]Wm: i b Uh B Ud `Yg/ $_{\circ}$ \$' - / Gi a a Yf A Ub [c : Ygh H\]g GUhi f X Um $^{\circ}$



B Ud`Ygž: `cf]XUžI G5 ! 5g gi a a Yf`\YUhgʻi d`]b gi bbm: `cf]XUž
]h gʻa Ub[cʻgYUgcbžUbX'h\YfY gʻbcʻVYhhYfik UmʻhcʻWY`YVfUhY'h\Ub
VmʻghYdd]b[ʻ]bhcʻh\Yʻj]VfUbhʻk cf`XʻcZa Ub[cgʻUhʻh\Yi dWca]b[ʻ
Gi a a YfʻA Ub[cʻ: Ygh"'GW\YXi `YXʻZcfʻGUhi fXUmžʻ‡ bYʻ%(žʻZfca
%\$`U"a "'hcʻ%'d"a "'Uhʻh\Yʻ=a a c_U`YY`D]cbYYfʻA i gYi a `UhʻFcVYfhg
FUbW\ž'h\]gʻZUa]`m'Zf]YbX`m'Yj Ybhʻdfca]gYgʻUbʻYb[U[]b[
YI dYf]YbW'ʻZcfʻU```U[Yg"'K]h\`hUgh]b[gžYI dYfhʻh]dgʻcbʻa Ub[c
W``h]j Uh]cbžʻUbXʻh\YʻW\UbWYʻhcʻhU_Y`\ca Yʻgca Yʻgk YYhʻZfi]hž
dUfh]W]dUbhgʻUfYʻ]bʻZcfʻUʻhfYUh"'5gʻfYdcfhYXʻVmʻB Ud`Ygʻ: `cf]XU
K YY_`mž'h\YfY gʻ[ccX'fYUgcbʻhcʻa Uf_imci fʻWU`YbXUfg°

 $:cf'a\ Ub[\ c'`cj\ Yfgž'h\]g'ZYgh]j\ U``k\]```bch'cb`m'\][\ \ `][\ h'h\ Y\ XY`]W]ci\ g'Zfi\]h'Vi\ h'U`gc'XY`j\ Y']bhc']hg'ZUgW]bUh]b[\ '\]ghcfm''A\ Ub[\ cg']$

hfUWY h\Y]fifcchg'VUW_ihc'Gci h\'UbX'Gci h\YUgh'5g]Už'Vi hi: `cf]XU\Ug'Ya VfUWX'h\]g'hfcd]WU``XY`][\hik]h\'cdYb'Ufa gž'dfYgYbh]b[bi a Yfci g'Wca a YfW]U`'W' `h]j Ufg"'CbY'gi W\'ghUf']g'h\Y' < UXYbž 'U j Uf]Yhm'Z]fgh'VfYX']b'h\Y'%- %\$g']b'7cWcbi h'; fcj Y"'H\Y'ZYgh]j U`]bWi XYg'gUa d`]b['j Uf]ci g'a Ub[c'W' `h]j Ufg'UbX'X]gW' gg]cbg'cb\ck 'hc'[fck 'a Ub[c'hfYYgž'dYfZYWh'Zcf'UbmcbY'`cc_]b['hc'W' `h]j UhYh\Y]f'ck b'g`]WY'cZ'dUfUX]qY'Uh'\ca Y"

5 : `Uj cfZi ` '9 I d Y f] Y b W Y 5 k U] hg

6Yg]XYg'h\Y'XY`][\hZ\`Zfi]h!hUgh]b[ž'UhhYbXYYg'WUb'YldYWh'U'\cghcZ'UWh]j]h]Yg'dYfZYWh'Zcf'ZUa]`m'YbhYfhU]baYbh''K\Yh\Yf'mcifY'UgYUgcbYX'aUb[c'Ybh\ig]Ugh'cf'U'bcj]WY'`cc_]b['hc'`YUfbž'h\Y'GiaaYf'AUb[c':Ygh'dfcj]XYg'h\Y']XYU``cddcfhib]hm'hcX]gWcjYf'YjYfmh\]b['UVcih'h\]g'VY`cjYX'Zfi]h''Mci'WUb'`YUfb'\ckhc'[fck'mcif'ckb'aUb[c'hfYYg'Zfca'YldYfhgžYbgif]b['mci'\UjYU'[ccX'\UbX'Uh'bifhif]b['h\YgY'hfcd]WU`'YkY`g']b'mcif'[UfXYb''

6i h'k U]hžh\YfY g'a cfY°H\Y'YI W]hYa Ybh'XcYgb h'YbX'\YfYž'Ug'

A]Ua] 'UbX'6YUW Yg'fYj YU'g'h\Uh'U'`Uf[Yf!gWU`Y'Yj Ybhž'h\Y'

A Ub[c: Ygh]j U`ž']g'gYh'hc'i bZc`X'cb'** `m'%&'UbX'%' 'Uh': U]fW\]`X

Hfcd]WU`'6chUb]W; UfXYb"'H\]g'Ubbi U`'WY`YVfUh]cb'gdUbg'cj Yf

h\fYY'XYWUXYg'UbX'\][\`][\hg'bch'cb`m'h\Y'a Ub[cg'j YfgUh]`]hm

Vi h'U`gc']hg'W'`hi fU`'g][b]Z]WUbW']b'A]Ua]"'H\Y'ZYgh]j U`'k]``

ZYUhi fY'\i bXfYXg'cZ'YI ch]Wa Ub[c'j Uf]Yh]Ygž'hUgh]b[gž'U

a Uf_Yhd`UWY'k]h\'`cWU`'Ufh]gUbgž'UbX'U'd`Yh\cfU'cZ'YXi WUh]cbU`

`YWhi fYg'cb'Yj Yfmh\]b['Zfca 'W'`h]j Uh]cb'hc'W'`]bUfm'Udd`]WUh]cbg"

\times]b h\ Y : i b °

 $\label{lem:convention} K \mbchiYb \$

Uj Y ei Ygh]cbg3 Mci WUb fYUW ci h Zcfa cfY]b Zcfa Uh]cb UVci h

h\Y'GiaaYf'AUb[c': Ygh'Uh'h\Y'aigYia'Vm'WU``]b[&'-!&)&!&* %%'cf'j]g]h]b['7c``]Yf'AigYiag"'=Z'mcifY']bhf][iYXVm'h\Y'`Uf[Yf'AUb[c': Ygh]jU``]b'A]Ua]ž'h\YfYg'U'hfYUgifY'hfcjY'cZ_bck`YX[Y'kU]h]b['Zcf'mci'h\YfYž'U`cb['k]h\'U'Z'``XUm'cZ'aUb[c!h\YaYX'UWh]j]h]Yg"'=h'U```UXXg'id'hc'U'Zfi]hm'giaaYf'h\Uh'bcbYg\ci`X'a]gg°

K\Yh\Yf`mci fY`fcch]b['Zcf`hUgh]b[gž`Yl dYfh`UXj]\W`ž`cf`^i gh`U [ccX`h]a Y`k]h\`ZUa]`mž`h\YgY`a Ub[c`ZYgh]j U`g`\WfYUhY`U`XY`]\W]ci g cddcfhi b]hm`hc`Yb[U[Y`k]h\`:`cf]XU g`U[f]\W``hi fU``[Ya g\"`

8 Y hU]`g	
Cfh	BUd`Ygž': `cf]XUž'l G5
EiY``Yb	bUd`Yg"Z`cf]XUk YY_`m"Wca
	• Wc``]YfaigYiag"Wca
	• k k k "a]Ua]UbXVYUWXYg"Wca

6Ygi WXYb G]Y i bg Ui Z. a Y]b!k]Yb bYh