

GWX Ø`Yfł]bbYb < Ui g\U`h'&\$&). 8 Ya c_fUh]Y ``YfbYb'i bX'Dfc^Y_hY [YghU`hYb°

9fZU\fYb G]Yžk]Y XYf GW ØYfł]bbYb < Ui g\U`h'?]bXYf i bX

→ [YbX`]W Y]b GdUbXUi VYZÀ\][hž 8 Ya c_fUh]Y dfU_h]gW ni
Yf YVYb → hYfYgg]YfhY GW i Yb _ ObbYb g]W V]g ni a &("
Bcj Ya VYf &\$&(i a : OfXYfa]hhY j cb %") \$\$ 9i fc

VYk YfVYb Bi hnYb G]Y X]Y 7\UbW ž Dfc Y_hY [Ya Y]bgUa ni
[YghU`hYb i bX Z]bUbn]Y ``Y J YfUbhk cfhi b[ni ØVYfbY\a Yb"
A Y\f ⇒ Zcfa Uh]cbYb Z]bXYb G]Y Ui Zi bgYfYf K YVgY]hY"



$$\label{eq:continuous} \begin{align} \begin$$

"HUb 'U': fUb n_Y ž'X]Y '`Y]XY b g W UZh`] W Y '6 Y n]f_gghUX hf À h]b

ZØf '¬i [Yb X. K]f 'k c``Yb ž'X Ugg 'i bgYfY '1 b[Yb 'A Ybg W Yb 'Yf `YVY b ž
k]Y 'A]hV Ygh]a a i b['Z b_h]c b]Yfh '' I bgYfY '8 Ya c_fUh]Y ']gh
gd Ub b Yb X 'i b X 'gc ``hY 'U_h]j 'a]h[YghU`hYh 'k Yf XYb ° '; `Ui Vh 'a Ub ']\fž
g]b X 'X]Y '?]Xg ']b 'Gd Ub X Ui 'b] W h 'b i f '_fY Uh]j Y '? Òd ZY ž gc b XYfb 'Ui W YW hY '9 b hg W Y]Xi b [ghf À [Yf ° ''

$K] Y [Y \setminus h g \setminus k Y] h Y f 3$

"?ØbZh]['k YfXYb'j]Yf'k Y]hYfY'GWki `Yb']b'XUg'gdUbbYbXY'Dfc'Y_h
Ui Z[Ybca a Yb'i bX'XØfZYb'g]Wk'ØVYf'Y]bY'XfY]'À\f][Y': ÒfXYfXUi Yf
ZfYi Yb°8Ug'_`]b[h'bUWk'Y]bYf'f]Yg][Yb'7\UbW'ZØf'; fi bXgWki `Ybž

♣bhY[f]YfhY'GY_i bXUfgWki `Ybž'; ma bUg]Yb'i bX'U``Y'k Y]hYfYb
ÒZZYbh`]WkYb'GWki `Yb']a '6Yn]f_"'8]Y'HY]`bU\a Y']gh'b]Wkh'bi f'Y]b
hc``Yg'5VYbhYi Yf' 'g]Y'Zcfa h'Ui Wk'X]Y'A Y]bi b['i bX'X]Y
: À\][_Y]hYb'' b[Yf'A YbgWkYb°''

 $\label{lem:conditions} $$ CWX : XUa] h'b] WX h'[Ybi [``8]Y : GWX i `Yb'_ObbYb'g] WX : Ui Z'Y]bY k Yfhj c``Y'I bhYfghØhni b['ZfYi Yb''8]Y : GYfj] WYghY``Y $$ [YbXVYhY]`][i b['Y"J "'ghY\h'b] WX h'bi f'a]h'F Uh'i bX'HUh'ni f'GY]hYž gcbXYfb'V]YhYh'Ui WX : gdUbbYbXY'K cf_g\cdg'i bX'dfU_h]gWX Y A UhYf]U`]Yb'Ub"'Gc'`YfbYb'X]Y : GWX Ø`Yf'i bX'GWX Ø`Yf]bbYb'b] WX h'bi f XYb'I a [Ub['a]h'; Y`Xž'gcbXYfb'Ui WX ž'k]Y : g]Y']\fY'=XYYb'YZZY_h]j i a gYhnYb'_ObbYb'' : H\Ycf]Y'hf]ZZh'\]Yf'Ui Z'DfUI]g'''$

"DfYggY_cbhU_h.
G]a cbY'9b[`Yf
6Yn]f_gUa h'GdUbXUi 'j cb'6Yf`]b

5Vh" * [YbX i bX ; Ygi bX\Y]h
GhUVgghY``Y DfYggY! i bX 2 ZZYbh`]WX_Y]hgUfVY]h
7 Uf`!GWXi fn!Ghf" &# %') - + 6Yf`]b
HY`". f\$' \$£'-\$&+- ` &&- '
9!A U]`. ^ [YbXi bX[Ygi bX\Y]h4 VU!gdUbXUi "VYf`]b"XY
k k k "gdUbXUi "XY `

.

8 Y hU] `c

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