

## 7ci fgY'Cj Yfj ]Yk

### GHJZ:7cbHJWh8YHJ]`g

#### 7cbj Ybcfg

B Ua Y	9a U]`	5j U]`UV]`]hm	@cWUh]cb	D\cbY
>cbUh\Ub^6c``Yb	"Vc``Yb4 i bgk "YXi "Ui	9a U]`'Zcf	FcVYfh	-',)*+%-
		Uddc]bha Ybh	K YVghYf <sup>-</sup> &(*8	

#### @YWhi fYfg

B Ua Y	9a U]`	5j U]`UV]`]lm	@cWJhjcb	D\cbY
H\Yfcb <sup>·</sup> GW\a]Xh		,	FcVYfh	-',)"&%
		Uddc]bha Ybh	KYVghYf"‱%	

### GWXcc`7cbHJWhi±bZcfa Uhjcb

Fcca " &ž`Yj Y`" FcVYfhK YVghYf'6i ]`X]b[

D\cbY.'f\$&Ł'-',)'(,)\*

9a U]` gUa 4 i bgk "YXi "Ui

K YVg]hY. \hdg.##gUa "Ufhg"i bgk "YXi "Ui

 $\label{thm:constraint} $$HY'GWKcc``cZhY'5ftg`UbX'AYX]U'kci`X``]_Y'tc'FYgdYWZI``m'5W_bck`YX[Y'thY'HfUX]t]cbU``7igtcX]UbgZhY'6YXY[U``ffYYbg]b[tcb'WJadigŁZ'; UX][U``ffY]tmUbX'5fth/ '8Yg][b'7UadigYgŁ'UbX'thY'B[ibbUkU`dYcd`Y'f5igtfU`]Ub'8YZYbWY': cfWY'5WJXYam']b'7UbVYffUŁ'cZhY'`UbXg'k\YfY'YUWK'WJadig'cZlBGK']g`cWJhYX''$ 

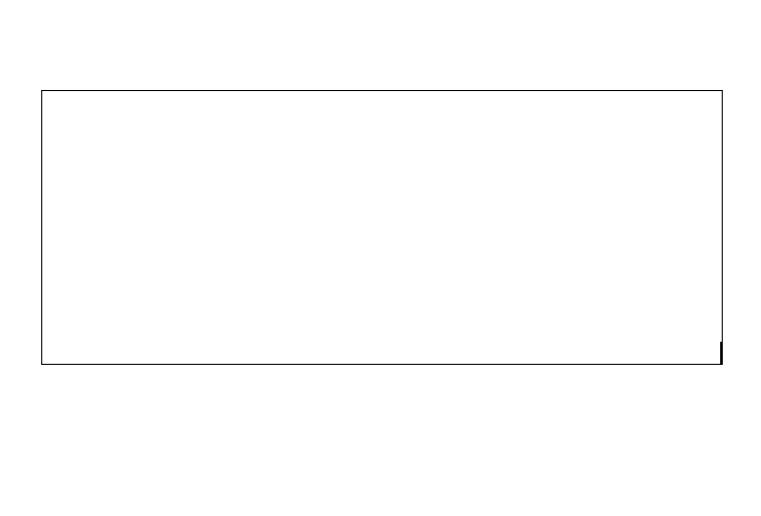
7 ci fgY 8 YHJ]`g 7 fYX]hDc]bhg \* ' Gi a a UfmcZh\Y 7 ci fgY  $Z'ghj \ U'g'UbX'gdYWUWYg'': \ ]Y'X'hf]dg'hc'Whhfyg'cZWfYUhj Y'dfcXi Whcb']b'A Yhfc'A Ub]'U'k \ ]^``dfcj \ ]XY cddcfh b]hjYg'Zcf'5i ghfU']Ub'gh XYbhg'hc Yb[ U[ Y'k ]h 'bYhk cf_g'cZWfYUhj Y'dfUWhjhjcbYfg'UbX'XYj Y`cd'h\Y]f ck b'dfc YWhjXYUg'''H\YgY'WhhfYg']bWi XY'+blfUa i fcg'UbX'h\Y'D\]']dd]bYg'7i `hi fU`'7YbhfY/G]dUh@Uk ]b 9bgYa V'Y'UbX'D9H5'H\YUhfY'7YbhfY']b'E i Yncb'7]hm'-, 6'7C@56cfUhcfmUfhjghfi b'gdUW']b'h\Y'c'X h\YUhfY'X]ghf]WicZ9gWc'hU/h\Y'D]bYUdd'Y'@UV'dYfZcfa UbW'gdUW']b'A U_Uhj/UbX'h\Y'bYk'5fhg'7YbhfY'Uh 6cb]ZJWjc'; `cVU`'7]hm''$ 

# 5ggYgga Ybh

## 5ggYgga YbhHUg\_g

5ggYgga Ybh'HJg_	K Y][ \h	8i Y <sup>.</sup> 8UhY	Gh XYbh@YUfb]b[
			CihWcaYgʻ5ggYggYX

5ggYgga Ybh'8YHJ]`g



## FYgci fWyg

#### DfYgWf]VYX F Ygci fWYg

91 dYWYX Wci fgY fYgci fWYg dfcj ]XYX Vml BGK ``]VUfmj ]U a ccX`Y"

## FYWca a YbXYX FYgci fWfg

FYWca a YbXYX'Wci fgY'fYgci fWYg'dfcj ]XYX'Vml BGK ``]VUfmj ]U'a ccX`Y"

#### 7ci fgY 9j U'i Uhjcb UbX 8Yj Y'cda Ybh

K Y j U i Y mci f ZYYXVUW\_"K Y \cdY mci 'k ] ```g\UfY mci f Y I dYf]YbWr Ug h\Y Wci fgY ]g i bZc`X]b[ `UbX`fYZYWh cb k \Uhmci `\Uj Y ``YUfbhk \Yb mci `\Uj Y `Wca d`YhYX h\Y Wci fgY" K Y dfcj ]XY cddcfhi b]h]Yg Zcf`fYZYWf]cb UbX`ZYYXVUW\_`]b `WUgg" K Y 'U`gc ]bj ]hY mci 'hc g\UfY mci f Y I dYf]YbWrg cb `]bY" 5 hh\Y WcbWi g]cb cZh\Y Wci fgYžmci 'k ]```VY ]bj ]hYX hc Wca d`YhY U Zcfa U``Yj U`i Uh]cb cZh\Y Wci fgY" K Y k ]``i gY mci f ZYYXVUW\_`UbX fYZYWf]cbg hc a U\_Y UX h gha Ybhg Ug h\Y Wci fgY ]g XY`]j YfYX UbX hc XYj Y`cd h\Y Wci fgY ]b h\Y Z hi fY"

# Gi Va ]gg]cb cZ5ggYgga YbhHUg\_g

Gi Va ]gg]cb cZ5ggYgga YbhHUg\_g

Hi fb]h]b Gi Va ]gg]cb

; YbYfU``mž'UggYgga YbhiHug\_g'a i ghVY'gi Va ]hhYX'Y`YWfcb]WU``mj ]U'Y]h\Yf'Hi fb]hjb'cf'U'A ccX`Y Ugg][ ba Ybh'' =b']bgHUbW'g'k \YfY'h\]g']g'bchdcgg]V`Yž']hk ]``'VY'gHUhYX'cb'mci f'Wci fgY'g'A ccX`Y'g]hY'k ]h\U`hYfbUhj Y'gi Va ]gg]cb'XYHU]`g''

: cfi]bZcfa Uh]cbicbi\ck ihcigi Va ]hUgg][ ba Ybhgicbi]bYij ]UiA ccXiY.i\hdg.##gh XYbh'i bgk "YXi "Ui ≯ck! qi Va ]hUgq][ ba Ybha ccXiY

# 5 WUXYa ]W<cbYghmUbX D`U[]Uf]ga

D`U[]Uf]ga i]gii g]b[ih\Yik cfXgicfi]XYUgicZch\YfgiUbXidfYgYbh]b[ih\Ya iUgimci fick b"i=hWJbihU\_Yia Ubm Zcfa gžZfca iXYi]VYfUhYiWXYUh]b[ihciUWW]XYbhU`mWcdm]b[iZfca iUigci fWYik]h\ci hiUW\_bck iYX[Ya Ybh'

IBGK [fcidg'd'U[]Uf]ga ]bhc'h\Y'Zc``ck]b['WUhY[cf]Yg.

# 5WUXYa]W±bZcfaUhjcb

: cf `YggYbh]U``gh XYbh]bZcfa Uh]cb `fY`Uh]b[ `hc.

- fYei Yghg Zcf Yl hYbg]cb/`UhY gi Va ]gg]cbg [ i ]XY`]bYg/