## HA<G87 FG4G8F F86HE<G<8F 4A7 8K6 ; 4A : 8 6B@@<FF<BA

J N`UV[Ta\[& 7(6(+).-2

# 9BE@ \*)'D

 $\checkmark$ 

#### FG8E?<A: <A9E4FGEH6GHE8&<A6( DH4EG8E?LE8CBEGBA9BE@\*)'D G45?8B96BAG8AGF

## C4EG < h 9<A4A6<4? <A9BE@4G<BA

<aRZ \*(

## FG8E?<A: <A9E4FGEH6GHE8&<A6( # FH5F<7<4E<8F

### FG8E?<A: <A9E4FGEH6GHE8&<A6( # FH5F<7<4E<8F ABG8F GB G; 8 6BA78AF87 6BAFB?<74G87 9<A4A6<4? FG4G8@8AGF =b[R,)&+)+-

 $2@AI0EBE=>GA 2I0=ICE>GA +NNA0N J ?^eQ^WYR\U QccUec YTU^eYVYUT Qc `Qbe _V eXU FF= 7 SafYcYeY_^ QbU bUV\USeUT Y^ eXU eQR\U RU\_h Q^T QbU bUS_bTUT Qe eXUYb UceY ] QeUT VQYb gQ\fU' Qc TUeUb ] Y^UT Rj eXU 9_] `Q^j c ] Q^QWU ] U^e' RQcUT _^ QgQY\QR\U Y^V_b ] QeY_^ h XYSX Y^S\fTUc Q gQ\fQeY_^ Vb_] UieUb^Q\ Ui `Ubec) JXU UceY ] QeUT fcUVf\ \YgUc V_b Y^eQ^WYR\U QccUec h UbU TUEUb ] Y^UT RQcUT f`_^ eXU bU ] QY^Y^W fcUVf\ US_^ ] YS \YgUc _V eXU Y^eQ^WYR\U QccUec eXQe QbU Ui `USeUT e_ S_ebYRfeU TYbUSe\j _b Y^TYbUSe\j e_ VfefbU SQcX V\_h c)$ 

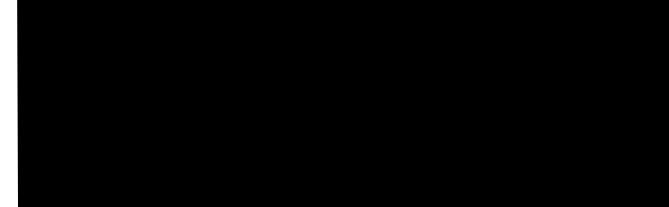
	J RVTUaRQ 4 cR_NTR ?VSR \$LRN_`%		$A \ cRZOR_ */(+)+,$ 9NV_ I NVbR		
9 fce_ ] Ub bU\QeY_^cXY`c	-+	!	/.'/++		
JbQTU ^Q ] Uc	,0		,',++		
J_eQ\		!	//'0++		

.(

Y^eUbUce fcY^W Q JUb] IE<H

I f ` \U ] U^eQ\ RQ\Q^SU cXUUe <code>Y^V\_b</code> ] Qe<code>Y\_^ bU\QeUT</code> e\_ \UQcUc <code>Yc</code> Qc <code>V\_\\_hc5</code>

B]R_NaV[T ?RN`R`	$=\mathbf{b}[\mathbf{R},)(+)+-$		7 RPRZOR_,*(+)+,	
E`UbQeY^W \UQcU bYWXe(_V(fcU QccUec	!	03'42+	!	02'0
9 fbbU^e `_beY_^ _V \_^W(eUb ] \UQcU _R\YWQeY_^c	!	,4'3.,	!	,4'1/,
B_^W(eUb] \UQcU_R\YWQeY_^c		.4',3+		.2'2



UHVSHFWLYHO\ 7KH &RPSDQ\ UHFRJQL]HG

<a RZ +(

#### BI8EI<8J

*1 A I AM*=G o IeUb\Y^W ?^VbQcebfSefbU' ?^S)' %pIeUb\Y^W' peXU 9\_]`Q^j' phU' p\_fb \_b pfc &

9\_^ebQSec Y^ `b\_WbUcc eXQe hUbU ^\_e cfRceQ^eYQ\\j S\_] `\UeU e\_eQ\UT Q``b\_iY]QeU\j --+ Qe R\_eX @f^U .+' -+-/ Q^T -+-.' bUc`USeYgU\j) JXUcU S\_^ebQSec QbU \_V gQbY\_fc cY Uc' \_V TYVVUbU^e Ui`USeUT `b\_VYeQRY\Yej Q^T Y^ gQbY\_fc ceQWUc \_V S\_]`\UeY\_^) JXU ^UQbUb Q S\_^ebQSe `b\_WbUccUc e\_hQbT S\_]`\UeY\_^' eXU ]\_bU gYcYRY\Yej eXU 9\_] `Q^j XQc Y^ bUVY^Y^W Yec UceY]QeU \_V e\_eQ\ bUgU^fUc %Y^S\fTY^W Y^SU^eYgUc' TU\Qj`U^Q\eYUc Q^T SXQ^WU \_bTUbc&' S\_cec Q^T Wb\_cc `b\_VYe) JXfc' Wb\_cc `b\_VYe Qc Q `UbSU^eQWU \_V bUgU^fUc SQ^ Y^SbUQcU \_b TUSbUQcU Vb\_] S\_] `QbQR\U Q^T cfRcUafU^e afQbeUbc TfU e\_gQbYQeY\_cc Q]\_^W S\_ebQSec Q^T TU`U^TY^W f`\_^ eXU ceQWU \_V S\_]`\UeY\_^ VS\_^ebQSec)

*I AIAM=G = I*@ =@*HEIENOM=0EQA ASKAINA U* = U^UbQ\ Q^T QT ] Y^YcebQeYgU Ui`U^cUc h UbU

!)> D <b>9?E</b> C <b>2</b> >5C"	GU_RR @ \ [ aU` 8	[QRQ = b[R, )]	$F^{V}e @ \ [aU^ 8 [QRQ = b[R, ])!$		
ERcR[bR`	"\\$ +)+- ERcR[bR	" \\$ +)+,			

- =KE0=G 80M=0ACT h JXU 9\_]`Q^j hY\\ S\_^eY^fU e\_ Ui`\\_bU QTTYeY\_^Q\ bUgU^fU Wb\_heX Q^T SQ`YeQ\ Q\eUb^QeYgUc e\_ Y]`b\_gU

## <aRZ -( %?>DB?<C 2>5 - B?465EB6C

8cNYbNaV\[ \\$ 7V`PY\`b\_R 6\[a\_\Y` N[Q C\_\PRQb\_R`

#### C4EG << h BG; 8E <A9BE@4G<BA

#### <aRZ \*( \*682< - B?4665:>8C

JXU 9 C	Q^	Y^S\ TY^₩ Y	С	b S C	C YA	U^ U Q^ Y	С	\ T
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UYU CU UY^ U^ YUT b Q C C Q C XUCU b\_SWQTYYWc c^USU UW^S TU^b\_QY UC XU b bTQY b

<aRZ /( 'H9:3:DC

JXU V\_\\\_h Y^W Ui XYRYec QbU VY\UT h YeX eXYc HU`\_be5

8eUVOVa A\(

8 eUVOVa GVaYR

.), <sup>\$, \$</sup>  $\frac{9 \ [\ cYeU \ 9UbeYVYSQeU \ V \ ?^S \ b\ bQeY \ ^ V \ IeUbY^W \ ?^VbQcebfSefbU' \ ?^S) \ Qc \ Q \ [ U^TUT \ eXb \ fWX \ CQj \ .' \ -+- . \ %Y^S \ b \ bQeUT \ Rj}{bUVUbU^SU \ e \ ; iXYR'e \ .), \ e \ IeUbY^W \ ?^VbQcebfSefbU' \ ?^S) \ c \ HUWYcebQeY \ ^ IeQeU \ U^e \ ^ < b \ ] \ 3(7' \ VI/UT \ ^ CQj \ ,-' \ -+- . \ %I \ ; 9)}$ 

#### F<: A4GHE8F

FfbcfQ^e e\_eXU bUafYbU ] U^ec\_V eXU IUSfbYeYUc ; iSXQ^WU 7Se\_V ,4./' eXU bUWYcebQ^e XQc Tf\j SQfcUT eXYc bU`\_be e\_ RU cYW^UT \_^ Yec RUXQ\V Rj eXU f^TUbcYW^UT' eXUbUf^e\_ Tf\j QfeX\_bY UT)

#### **FG8E?<A: <A9E4FGEH6GHE8**& **<A6**(

: QeU5 7 fWfce 1' -+-/

8j5 \*c\* IXQb\_^ H) LY\\QgUbTU

$$\label{eq:linear} \begin{split} &IXQb\_^ H) \ L^{V}\QgUbTU \\ &9XYUV <^{Y}Q^SYQ\ EVVYSUb \ Q^T \ : \ f\ j \ 7 \ feX\_bY \ UT \ EVVYSUb \end{split}$$