# $7 \Upsilon a cbh'Dc]WY'7cbbYWhg'k]h\'Mcih\'Uh G]dž'7\]``'/ Ua d/'7\Uh'9jYbh'$

7`Yfa cbh'Dc`]WY'ZcghYf'Wca a i b]hm'h]Yg'Uh'G]dž'7\]``/ Ua d/7\Uh'Yj Ybhž'Yb\UbW]b['mci h\'Yb[U[Ya Ybh'UbX Wca a i b]WUh]cb"'\*: ]b'i dWca ]b['UWh]j ]h]Yg°



+) \* 'K Ygh'A cbhfcgY'GhfYYhž'7'Yfa cbhž': @ž'I G5'!'Cb'\$bY (h\ž'h\Y'7'Yfa cbh'Dc']\W'8YdUfha Ybh'`\Ui b\W\YX']hg']bUi [i fU`'G]dž 7\]``'/ '7\Uh'f\G77\E'Yj Ybhž'\Y'X'\Uh'HYUa cbh'6c\VU'cb'K Ygh A cbhfcgY'GhfYYh'''H\]g'`]j Y`m'[Uh\Yf]b[']g'Ub'Yj c`i h]cb'cZ'h\Y'k Y``!\_bck b'7c\ZZYY'k]h\'U'7cd'dfc[fUa ž'XYg][bYX'gdY\W]Z]\W'`m'hc Yb\Ub\W' \Wca a i b]\WUh]cb'\VYhk YYb'`c\W\`'dc`]\W''c\ZZ]\W'fg'UbX \Wca a i b]\maxima Ya \VYfg\z'YgdY\W]\U``m'h\Y'mci h\'''Dc`]\W''7\]Y\Z'\&\b fU\Mm\_'gYYg'h\YgY']bhYfU\M]cbg'\Ug']bj \U`i \U\'Y\z'\cd]b['hc \W'\h]j \UhY'a Y\Ub]b[\Zi ``\WcbbY\M]cbg'\Ug']bj \U`i \U\'Y\z'\cd]b['hc

K\Uh'a U\_Yg'G]dž'7\]``'/ '7\Uh'gc'UddYU`]b[']g']hg'WUgi U` Uha cgd\YfY"'H\Y'j Ybi Y'cZZYfYX'U]f'WcbX]h]cb]b['UbX'XY`]W]ci g VcVU'hYUž'WfYUh]b['Ub']bj]h]b['gdUWY'Zcf'Wcbj YfgUh]cbg"'7\]YZ ; fUWhm\_'d`Ubg'hc'hU\_Y'h\]g']b]h]Uh]j Y'Zi fh\Yf'h\fci [\'UXX]h]cbU`dcd!id'Yj Ybhg'UWfcgg'h\Y'Wcaaib]hm'h\]g'giaa Yf"'H\YgY'dcd!idg'k]```hUf[Yh'mcih\'\chgdchg'`]\_Y'K UhYfZfcbh'DUf\_ž'\Y`d]b[mcib['dYcd`Y'Yb[U[Y'X]fYWh'm'k]h\'h\Y]f'`cWU```Uk 'YbZcfWYaYbh"

#### CdYfUh]cb < mXfUh]cb UbX: i hi fY 9j Ybhg

H\YfY g'Yj Yb'U' Mci h\'8 Um': Ygh]j U`']b'h\Y'k cf\_gžgYh'hc'hU\_Y d`UWY']b'A W?]bbYm'DUf\_'`UhYf'h\]g'ZU``ž'U`VY]h'gdYW]Z]WXYhU]`g'UfY gh]``']b'XYj Y`cda Ybh"'H\Y'XYdUfha Ybh g'Wca a ]ha Ybh'hc Wca a i b]hm'Yb[ U[ Ya Ybh']g'Zi fh\Yf'ghfYb[ h\YbYX'Vm']hg'Zi ``!h]a Y Wca a i b]hm'fY`Uh]cbg'i b]hž'k \]W\'WcbXi Whg'Wf]a Y'dfYj Ybh]cb dfYgYbhUh]cbg'UbX'gi ddcfhg']b]h]Uh]j Yg'']\_Y'bY][\Vcf\ccX'k UhW\ dfc[ fUa g"

### 6i ]`X]b[ 'Hfi gh'H\fci [ \ '7ca a i b]hm'Dc`]W]b[

H\YgY``cWU``YZZcfhg`fYZYWh`U`VfcUXYf`hfYbX`]b`dc`]WY!Wcaaib]hm
]bhYfUWh]cbž`U`d\]`cgcd\m`YI hYbg]j Y`m`gi ddcfhYX`Vm`h\Y``]\_Yg`cZ
7\f]g`7c[bUW'`<Y`Wc!Zci bXYX`h\Y`7cZZYY`k]h\`U`7cd`dfc[fUa`]b
&\$%%ž`k\]W\`k Ug`Vcfb`ci h`cZ`h\Y`bYYX`Zcf`]adfcj YX
Wcaaib]WUh]cb`VYhk YYb``Uk `YbZcfWaYbh`UbX`Wcaaib]hm
aYaVYfg"'Bck`]ad`YaYbhYX`UWfcgg`Yj Yfm`ghUhY`UbX`]b`&+
Wcibhf]Ygž`h\]g`]b]h]Uh]j Y`YI Yad`]Z]Yg`\ck `YZZYWh]j Y`dUfhbYfg\]dg
WUb`ZcghYf`hfigh`UbX`ibXYfghUbX]b[`VYhkYYb`dc`]WY`UbX
fYg]XYbhg"

 $7c[bUW\]a gY`Z`\Ug`Ya d\Ug]nYX`h\Y`]a dcfhUbWY`cZ`\i a Ub]n]b[dc`]WY`cZZ]WYfg`h\fci [\`]bZcfa U``]bhYfUWh]cbgž'dc]bh]b[`ci h`\ck U``]bhYfUWh]cbgž'dc]bh]b[`U``]bhYfUWh]cbgž'dc]bh]b[`U``]bhYfUWh]cbgž'dc]bh]b[`Ci h`\ck U``]bhYfUWh]cbgž'dc]bh]b[`U``]bhYfUWh]cbgž'dc]bh]b[`U``]bhYfUWh]cbgž'dc]bh]b[`U``]bhYfUWh]cbgž'dc]bh]b[`U``]bhYfUWh]cbgž'dc]bh]b[`U``]bhYfUWh]cbgž'dc]bhYfUWh]cbgž'dc]bh]b[`U``]bhYfUWh]cbgž'dc]bhYfUWh]cbgž'dc]bhYfUWh]cbgž'dc]bhYfUWh]cbgž'dc]bhYfUWh]cbgž'dc]bhYfUWh]cbgž'dc]bhYfUWh]cbgž'dc]bhYfUWh]cbgž'dc]bhYfUWh$ 

gi WX 'Yj Ybhg'YbUV`Y'WjhjnYbg'hc'j c]WY'WcbWYfbg'UbX'Vi ]`X
fY`Uhjcbg\]dg"'H\Y'di g\'Zcf'Wca a i b]hm'VcbX]b[ 'k Ug'bchUV`m
Ua d`]ZJYX'UZhYf']bWjXYbhg'`]\_Y'h\Y'&\$%( 'g\cch]b[ 'cZ'A]WXUY`'6fck b
\$f"']b': Yf[i gcbž'k\YfY'Wca a i b]WUhjcb'WXUbbY`g'VYhk YYb'dc`]WY
UbX'Wca a i b]hjYg'k YfY'i f[ Ybh`m'WU``YX']bhc'ei Ygh]cb"

### ?Ymg`hc`Gi WWYggZi``DUfhbYfg\]dg

9ZZYWh]j Y'dUfhbYfg\]dg']b'di V`]WgUZYhm'XYdYbX'\YUj ]`m'cb fYgdYWhžhfi ghž'UbX'cdYb'`]bYg'cZ'Wca a i b]WUh]cb"'DUfh]W]dUbhg']b h\YgY']b]h]Uh]j Yg'a i gh'ZYY`'gYYb'UbX'\YUfXž'WfYUh]b[''U'Zci bXUh]cb Zcf'hfUbgdUfYbWm'h\Uh']g'j ]hU`'Zcf'gi WWYggZi `'Wc``UVcfUh]cbg" 7ca a i b]hm'dc`]W]b[ ž'U'\U``a Uf\_'cZ'Wcbghfi Wh]j Y'di V`]WgUZYhm Yb[ U[ Ya Ybhgž'dfca chYg'h\Y']bj c`j Ya Ybh'cZ'fYg]XYbhg']b'g\Ud]b[ dc`]W]Yg'h\Uh'X]fYWh'm'UZZYWh'h\Y]f'bY][\Vcf\ccXg"

9I Ua d`Yg`UVci bXž'gi W\`Ugʻh\Y`GU`]gVi fm`Dc`]WV`8 YdUfha Ybh g
BY][\Vcf\ccX`\\W`7fYUa '9I dfYggž'k\]W\`Vf]b[g`cZZ]WVfg`UbX
WJh]nYbg`hc[Yh\Yf']b`U`fY`UI YX`gYhh]b[ž`cf`h\Y`Dfc^YWh`GUZY
BY][\Vcf\ccX`]b]h]Uh]j Y`U]a YX`Uh`UXXfYgg]b[`Wf]a Y`h\fci [\Wca a i b]hm`Yb[U[Ya Ybh"5'j]hU``hU\_YUk Um`\YfY`]g`h\Uh
gi WWYggZi ``fY`Uh]cbg\]dg`fYei ]fY`]bhYbh]cbU``YZZcfh`UbX`h\Y
h\ci [\hZi ``gY`YWh]cb`cZ'dUfhbYfgž`YI hYbX]b[`VYmcbX``Uk
YbZcfWYa Ybh'hc`]bWi XY`a YbhU``\YU`h\`dfcZYgg]cbU`g`UbX`gcW]U`
k cf\_Yfg"

5g:7`Yfa cbhg']b]h]Uh]j Yg'i bZc`Xž'h\Ym'gYfj Y'Ug'U'fYa ]bXYf'cZ'h\Yd]j chU`'fc`Y'Wca a i b]hm'fY`Uh]cbg\]dg'd`Um']b'Yb\UbW]b['di V`]WgUZYhm'': cf'h\cgY'YU[Yf'hc'ghUm'i dXUhYX'cb'i dWca ]b['Yj Ybhg'UbX]b]h]Uh]j Ygž'h\Y'7`Yfa cbh'Dc`]WY'8YdUfha Ybh'fl @Ł': UWYVcc\_'dU[Y]g'h\Y'[c!hc'\i V"

8 YhU]`g	
Cfh	+) * 'K Ygh'A cbhfcgY GhfYYhž'7 `Yfa cbhž': @ž
	I G5
EiY``Yb	• g`hUV`Yh"Wca

8 YhU]`g	
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## 6 Ygi WX Yb 'G]Y 'i bg 'Ui Z. 'a Y]b!k ]Yb "bYh