

ARTS2150

H\Y'A U_]b['cZHfi a dfg'5a Yf]WU

HYfa 'H\fYY''##'&\$%-

7ci fgY⁻Cj Yfj]Yk

'GhJZZ'7cbhJWh'8YhJ]`g'

'7cbj Ybcfg'

B Ua Y	9a U]`	5j U]`UV]`]hm	@cWJhjcb	D\cbY
8Ub]Y`: `Ya]b[\U`4 i bgk "YXi "Ui	H65	H65	H65

GWXcc`7cbHJWhi±bZcfa Uh]cb

GWkcc`cZ<iaUb]hJYg'UbX'@Ub[iU[Yg

@c\\U||cb. G\\cc``C\\Z|\\\žA cfj\Yb'6fck\b'6i]\X]b[\z'@\j\Y``&z'&),

CdYb]b['<ci fg. 'A cbXUm! ': f]XUmž - Ua '!') da

D\cbY.'Ž*%'&'-',)'%*,%

: UI . Ž*%'&'-',)', +\$)

9a U]`. <u>\U`4 i bgk "YXi "Ui</u>

7ci fgY 8YW] g

7 fYX]hDc]bhg**

Gi a a UfmcZh\Y 7 ci fgY

Gi VYWhUfYU.: [efack

5ggYgga Ybh

5ggYgga Ybh'HUg_g'

5ggYgga Ybh'tUg_	K Y][\h	8iY'8UHY	Gh XYbh@YUfb]b[Ci hWca Ygʻ5ggYggYX
Hi hcf]U``dfYgYbhUh]cbg'	%) ।	Bch5dd`]WUV`Y	% <u>ž&</u> ž(
F YgYUfWX 'YggUm') \$1	\$%#%#&\$%-`\$).\$\$`DA	%ž&Ž Ž(
5H\ca Y'Z]bU`YI Ua]bUh]cb'	')	: cfa U``9I Ua 'DYf]cX	%ž&ž(

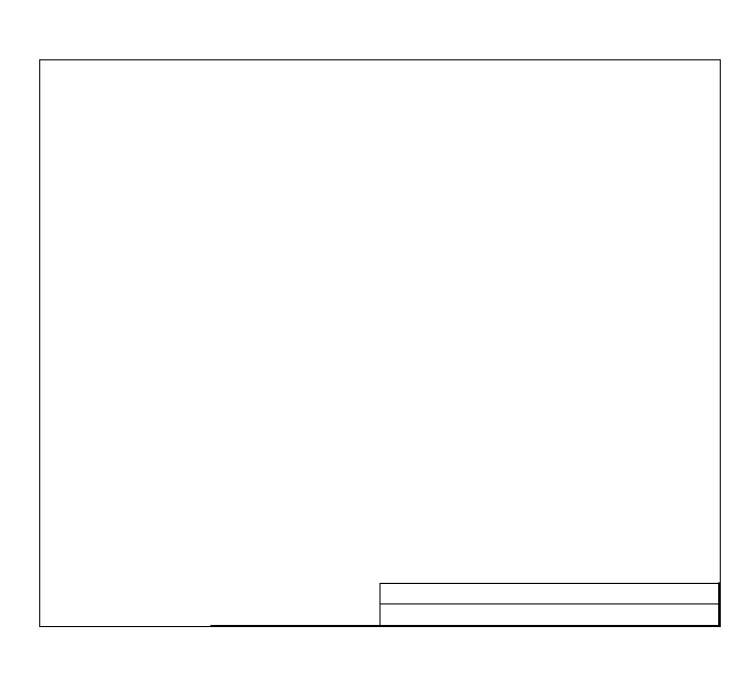
5ggYgga Ybh'8YhJ]`g

5ggYgga Ybh% 'Hi hcf]U` dfYgYbhJh]cbg

GhUfhXUhY. Bch5dd`]WUV`Y

8YHJ]`g. ') !a]bi hY`dfYgYbhUh]cbgžUVci h' `gh XYbhg`dfYgYbh]b[`dYf`h hcf]U``fXYdYbX]b[`cb`h\Y`g]nY`cZ h hcf]U`Ł"5``]ghcZdcgg]V`Y`hcd]Wg`VUgYX`cb`dYfgcbU`]h]YgžYj Ybhgžcf`dc`]W]Yg`k]```VY`dfcj]XYX`Zcf`h\Y gh XYbhg`hc`gY`YWhUbX`gdYU_`UVci h'`H\Y`gh XYbhg`k]```dfYgYbhi g]b[`Dck YfDc]bh]a U[Yg#g`]XYg`UbX`cbY GhUfhiXUhY.: cfa U`'91 Ua 'DYf]cX

8 YHJ]`g. '%\$\$\$`k cfXg"'Gh XYbhg`k]```Ubgk Yf`cbY`hYghei Ygh]cb'h\Uhk]```VY`VUgYX`cb'h\Y`cbY`cZh\Y`a U]b h\Ya Yg`cZh\Y`Wci fgY`h\Uh\Ug`VYYb`UbU`mgYX`]b`fYUX]b[gž'h hcf]U`g`UbX``YWh fYg"Gh XYbhg`k]```fYWY]j Y`U a Uf_`UbX`ZYYXVUW_`VUgYX`cb'h\Y`fi Vf]WZfca 'Hi fb]h]b"'H\Y`fi Vf]Wk]```ci h]bY`h\Y`ghUbXUfXg`cZUggYgga Ybh VUgYX`cb.'i bXYfghUbX]b['cZh\Y`hcd]Wfi gY`cZ\]ghcf]c[fUd\m/i gY`cZYj]XYbWY/ghfYb[h\`cZUf[i a Ybh/k f]hhYb`YI dfYgg]cb/fYZfYbW]b[/UbX`dfYgYbhUh]cb"



FYgci fWfg

DfYgWf]VYX F Ygci fWYg

 $H\]g'k\]``'VY'a\ UXY'Uj\ U]`UV`Y'cb'A\ ccX`Y$

FYWca a YbXYX FYgci fWyg

H\]g^k]``^VY^a UXY^Uj U]`UV`Y^cb^A ccX`Y

7 ci fgY '9j U'i Uh]cb 'UbX '8 Yj Y`cda Ybh

 $H\]g'\]g'\ h\ Y'\ Z]fgh'\ h]a\ Y'\ h\]g'\ Wc'\ fgY'\]g'\ hUi\ [\ \ h\check{z}'\ UbX'=k\ Y'\ Wc\ a\ Y'\ mc'\ f'\ ZYYXVUW''\]\]U'\ A\ m9I\ dYf]Yb\ W'''$

Gi Va]gg]cb cZ5ggYgga YbhHUg_g

Gi Va]gg]cb cZ5ggYgga YbhHUg_g

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

_Zmci YbWci bhYf'U'dfcV`Ya 'k \Yb'UhYa dhJb['hc'gi Va]hmci f'Ugg][ba Ybhh\fci [\ 'Hi fb]hJbž'd`YUgY
hY`Yd\cbY'9| hYfbU``Gi ddcfhcb'-',) '' ' ' %cf'Ya U]`'h\Ya 'cb'Y! hYfbU`hY`hgi ddcfh4 i bgk "YXi "Ui '"'Gi ddcfh
\ci fg'UfY', .\$\$Ua '-'%\$.\$\$da 'cb'k YY_XUmg'UbX'-.\$\$Ua '-') .\$\$da 'cb'k YY_YbXg'fl *) 'XUmg'U'mYUft'' =Zmci
UfY'i bUV`Y'hc'gi Va]hmci f'Ugg][ba YbhXi Y'hc'U'ZUi 'hk]h\'Hi fb]hJb'mci 'a Um'Udd'mZcf'Ub'Y! hYbg]cbžVi hmci
a i ghfYhU]b'mci f'hJW_Yhbi a VYf'Zfca '9! hYfbU``Gi ddcfhfU'cb['k]h\'Ubmch\Yf'fY`Yj UbhXcW a Ybhgt'hc
]bWi XY'Ug'Yj]XYbW'hc'gi ddcfhmci f'Y! hYbg]cb'Udd`]WUhJcb'' =Zmci 'Ya U]`'9! hYfbU``Gi ddcfhmci 'k]``

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±iWUbihU_Yia Ubm Zcfa qžZfca iXYi]VYfUhYiW\YUh|b[ihciUVW]XYbhU`mWcdm]b[iZfca iUiqci fWYik]h\ci hiUW_bck iYX[Ya Ybh'i

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

7 cdm]b[.'i g]b['h\Y'gUa Y'cf'j Yfmg]a]`Uf'k cfXg'hc'h\Y'cf][]bU`hYl h'cf']XYU'k]h\ci h'UW_bck `YX[]b['h\Y gci fW'cf'i g]b['ei chUh]cb'a Uf_g"'H\]g'U`gc'Udd`]Yg'hc']a U[Ygž'Ufh'UbX'XYg][b'dfcYWhgž'Ug'k Y``'Ug dfYgYbhUh]cbg'k \YfY'gca YcbY'dfYgYbhg'Ubch\Yf'g']XYUg'cf'k cfXg'k]h\ci h'WfYX]h'

⇒ Uddfcdf]UhY 'dUfUd\fUg]b[...7\Ub[]b['U'ZYk 'k cfXg'UbX'd\fUgYg'k \]'Y 'a cghmfYhJ]b]b['h\Y'cf][]bU` ghfi Wh fY 'UbX#cf'dfc[fYgg]cb'cZ]XYUg'cZh\Y'cf][]bU'žUbX']bZcfa Uh]cb'k]h\ci hUW_bck `YX[Ya Ybh'H\]g'U`gc Udd`]Yg']b'dfYgYbhUh]cbg'k \YfY'gca YcbY'dUfUd\fUgYg'Ubch\Yf'g']XYUg'cf'k cfXg'k]h\ci hWfYX]hUbX'hc d]YW]b['hc[Yh\Yf'ei chYg'UbX'dUfUd\fUgYg']bhc'U'bYk 'k \c`Yžk]h\ci hUddfcdf]UhY'fYZYfYbW]b["

7 c``i g]cb. 'k cf_]b['k]th 'cth Yfg'Vi hidUgg]b['cZZth Y 'k cf_'Ug'U'dYfgcb'g']bX]j]Xi U``k cf_"'7 c``i g]cb'U`gc]bWi XYg'dfcj]X]b['mci f'k cf_'thc'Ubcth Yf'ghi XYbh'VYZcfY'th Y'Xi Y'XUHYZcf'Zcf'th Y'di fdcgY'cZth Ya

- i bXYfgfUbX mci f'f][\hg'UbX'fYgdcbg]V]`]hJYg'Ug'U'gh XYbhUhl BGK
- VY`Uk UfY`cZd`U[]Uf]ga ž`Wcdmf][\hz'l BGK `Gh XYbh7cXY`cZ7cbXi WhUbX`5VWWdhUV`Y`l gY`cZ I BGK `=\forall H`F Ygci f\W\g`Dc`]\m\m
- VY 'Uk UfY 'cZh\Y 'ghUbXUfXg 'cZVY\Uj]ci f'Yl dYWYX 'cZYj YfmcbY ']b 'h\Y 'l BGK 'Wca a i b]hm
- `cWUHY 'gYfj]WYg'UbX ']bZcfa UH]cb'UVci hI BGK 'UbX'I BGK '@]VfUfm

Gca Y'cZh\YgY'UfYUg'k]``VY'ZJa]`]Uf'hc'mci ž'ch\Yfg'k]``VY'bYk"'; U]b]b['U'gc`]X'i bXYfgHJbX]b['cZU``h\YfY`UhYX'UgdYWng'cZ9@+69'k]``\Y`d'mci 'a U_Y'h\Y'a cghicZmci f'ghi X]Yg'UhI BGK "'\\hd.##qi VYWfi |XYg"`]VfUfm'i bqk "YXi "Ui #\`]qY#JVci hY`]qY

5 WUXYa]W±bZcfa Uhjcb

: cf'YggYbhJU`ghi XYbh]bZcfa UhJcb'fY`UhJb['hc.

• fYei Yghg Zcf Yl hYbg]cb/